Appendix B

MECP Well Records

UTM | | Z | | | | | | | | E

| 9 | R | | | | | | | | | N

Elev. | 9 | R | 1 | 0 | 5 | 0 |

Basin | 23 |

273

67 No. 2340

RECEIVED
MAR 28 1950
GEOLOGICAL BRANCH
DEPARTMENT OF MINES

ONTARIO

The Well Drillers Act

Department of Mines, Province of ~~Ontario~~

Water Well Record

[redacted] Con. 3 Lot ..... Pt. Lot ~~8~~ 7 H.T.

[redacted] R.# 2 Hespeler ..... Acres 1

Date Completed March 4th 1950 Cost of Well (not including pump) .....

Pipe and Casing Record	Pumping Test
Casing diameter(s) 4¼"	Date March4th 1950
Length(s) of casing(s) 88 ft.	Developed Capacity 5 G.P.M.
Length of screen	Duration of Test 2 hrs
Type of screen	Pumping Rate 5 G P M
Type of pump	Drawdown 15 ft.
Capacity of pump	Static level of completed well 36 ft
Depth of pump setting	Is well a gravel-wall type? gravel

Water Record

Kind (fresh or mineral) fresh

Quality (hard, soft, contains iron, sulphur etc.) hard

Appearance (clear, cloudy, coloured) clear

For what purpose(s) is the water to be used? house

How far is well from possible source of contamination? none

What is source of contamination? none

Enclose a copy of any mineral analysis that has been made of water

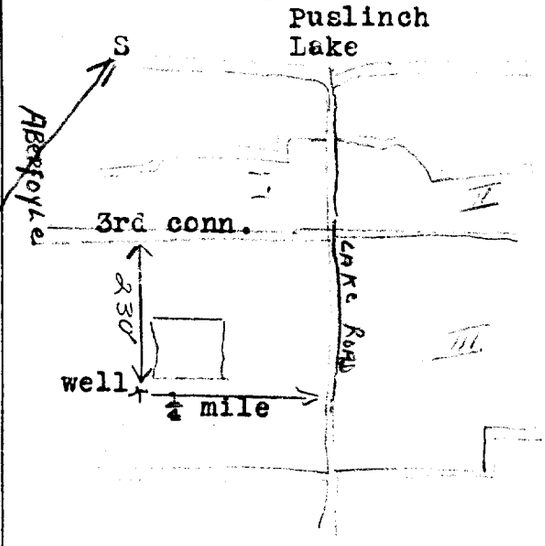
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
88 ft.	hard	52

Well Log

Drift and Bedrock Record	From	To
gravel	0 ft.	5 ft.
clay & boulders	5	16
sandy clay	16	23
coarse gravel	23	28
sandy clay	28	43
Quick sand	43	87
gravel	87	88

Location of Well

In diagram below show distances of well from road and lot line



Situation: Is well on upland, in valley, or on hillside? valley

Drilling Firm J.L.GRAHAM

Address 297 Exhibition St Guelph Ontario. CSS.S8

Recorded by W. H. Collingridge Address 5 Barton St. Guelph

Date March 4th 1950 Licence Number 354

UTM 11 E
5 R N
Elev. 6 R 1050

67 № 2342

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 23

County or District Wellington — Township, Village, Town or City Puslinch

Con. 3 Lot 8 — Date completed 14 (day) May (month) 67 (year)

Owner [redacted] (print in block letters) — Address 4 Honey Crescent R.R #2, Hespeler Guelph

Casing and Screen Record

Inside diameter of casing 6¼

Total length of casing 92

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole 5in

Pumping Test

Static level 33

Test-pumping rate 20 G.P.M.

Pumping level 37

Duration of test pumping 1hr

Water clear or cloudy at end of test clear

Recommended pumping rate 10 G.P.M.

with pump setting of 50 to 70 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Stones and Gravel	0	35	94	fresh
Sandy clay and small stones	35	85		
Sand and Gravel	85	90		
Silty sand	90	92		
Rock	92	96		

For what purpose(s) is the water to be used? Domestic

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm W Packham

Address RR2 Ancaster

Licence Number 2498

Name of Driller or Borer W Packham

Address RR2 Ancaster

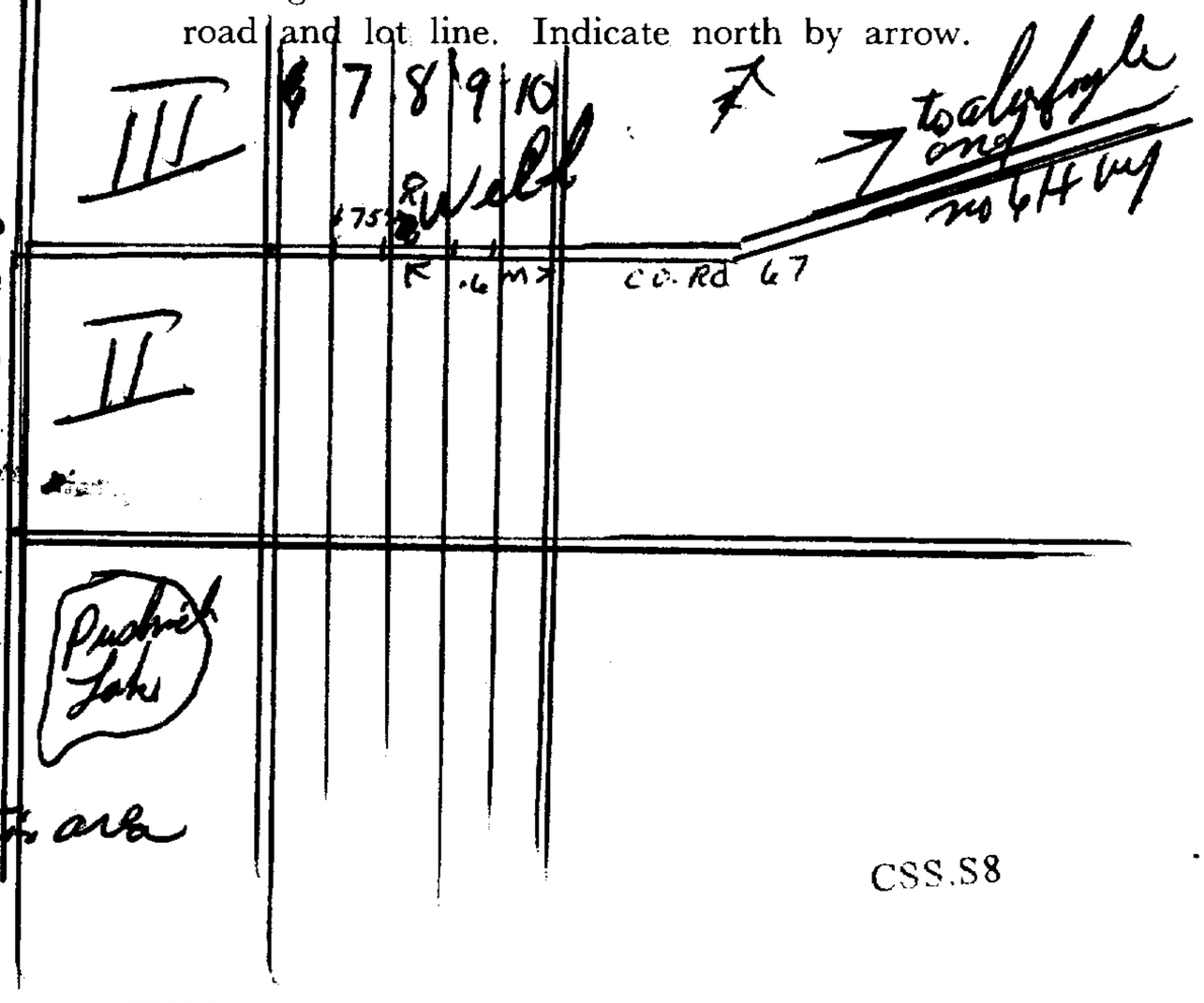
Date May 14/67

[redacted]

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 7 15M-60-4138 125 ft N & S Rd 4 W side of county reforestation area

OWRC COPY

CSS.S8

(746)

UTM Z E

5 R N

Elev. 5 R 1050

Basin 23

The Ontario Water Resources Commission Act

WATER WELL RECORD

GROUND WATER BRANCH
67 No 2343
MAR 23 1962
ONTARIO WATER RESOURCES COMMISSION

County or District Wellington

Township, Village, Town or City Puslinch

Con. ~~Front of 3rd con.~~ (Well County tree farm) Lot 9

Date completed 12th (day) March (month) 1962 (year)

Owner County of Wellington, (Guelph) (print in block letters)

Address County Clerk Office, Woolwich St Guelph Ont.

Casing and Screen Record

Inside diameter of casing 5 inch

Total length of casing 77 ft

Type of screen none

Length of screen nil

Depth to top of screen nil

Diameter of finished hole 5 inch

Pumping Test

Static level 23 ft

Test-pumping rate 10 G.P.M.

Pumping level 40 ft

Duration of test pumping 3 hrs

Water clear or cloudy at end of test clear

Recommended pumping rate ~~25~~ 8 G.P.M.

with pump setting of 35 ft feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
dug well	0	22	90'-126'	fresh
~~kindxxfxwater~~ coarse sand gravel	22	54		
fine sand (grey)	54	65		
fine sand, gravel (coarse)	65	78		
light brown rock	78	125		
dark brown rock	125	126		

For what purpose(s) is the water to be used? domestic

Is well on upland, in valley, or on hillside? hillside

Drilling or Boring Firm J L Graham Drilling Contractor

Address 119 Renfield St. Guelph Ont

Licence Number 481

Name of Driller or Borer Robert Graham

Address 210 Waverley Drive Guelph Ont.

Date March 17th 1962.

[redacted]

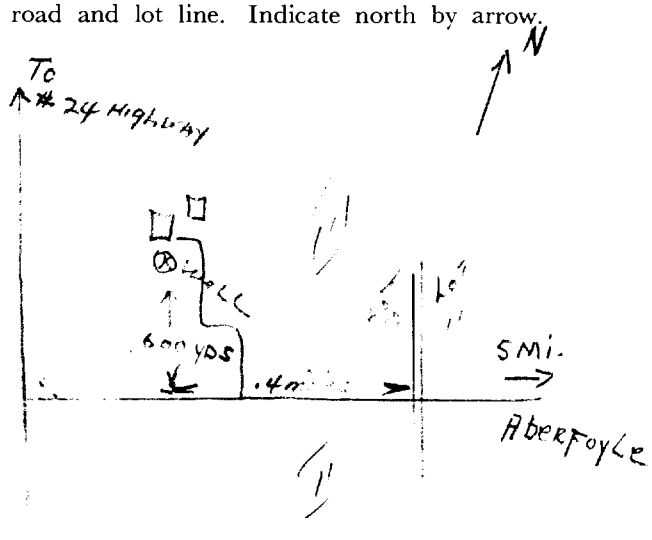
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.S8

17 5 60 1 0 0 Con II Lot 7

5 48 1 0 1 5 0 CODED 6703141

5 7 0 4 5

23 Keystone 50A

40P/6W

7

DIVISION OF WATER RESOURCES
JAN 9 1969
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District: Wellington

Township, Village, Town or City: [redacted]

Con. 2 Lot 7 Date completed: 4th December 1968 (day month year)

[redacted] Address: ~~Guelph~~ Ont. RR # 2 Hespeler

Casing and Screen Record

Inside diameter of casing: 5 inch

Total length of casing: 111 ft

Type of screen: ——

Length of screen: ——

Depth to top of screen: ——

Diameter of finished hole: 5 inch

Pumping Test

Static level: 42 ft

Test-pumping rate: 10 G.P.M.

Pumping level: 60 ft

Duration of test pumping: 1hr. bailer test

Water clear or cloudy at end of test: clear

Recommended pumping rate: 10 G.P.M.

with pump setting of: 60 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
stones and gravel	0	48	180	fresh
clay and gravel	48	90	to	
hard packed sand	90	111	194	
brown rock	111	155		
light grey rock	180	194		

For what purpose(s) is the water to be used? household

Is well on upland, in valley, or on hillside? hillside

Drilling or Boring Firm: Graham Well Drilling

mailing R R 2 Guelph Ont.

Address:

Licence Number: 2855

Name of Driller or Borer: Arthur Titus

Address: 25 Eramosa Rd. Guelph

Date: December 4th 1968

[redacted]

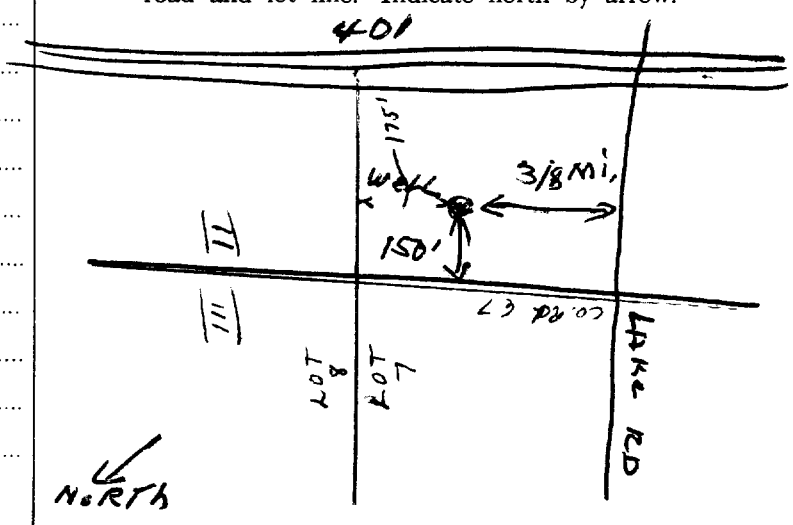
(Signature of Licensed Drilling or Boring Contractor)

Form 7 5M 60-20912

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.S8

The Ontario Water Resources Commission Act

WATER WELL RECORD

40 P/SWI

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 6704535 | MUNICIP. 67012 | CON. C/N2 | 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
WELLINGTON	PUSLINCH	2	009

[redacted] 2 Fairview Dr Preston

DATE COMPLETED: DAY 27 MO 01 YR 73

RC. 4 | ELEVATION 1035 | RC. 5 | BASIN CODE 23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	TO
		well pit		0	5
Brown	Clay &	Boulders.		5	24
		Sandy Clay & boulders		24	82
		Cemented gravel		82	92
		Rock		92	167

31 | 0005 23 | 0024 6051 3 | 0067 6 26

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0160	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	TO
05	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	244	0	93 ~~0893~~
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		93	0167
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	0012 GPM.	01 HOURS 30 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
032 FEET	038 FEET	033 FEET	FEET	032 FEET	FEET

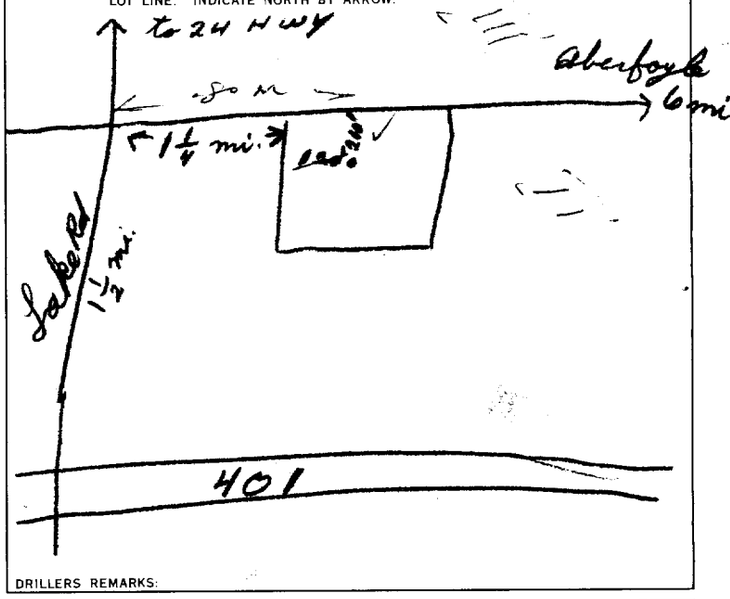
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM.	FEET	1 ☐ CLEAR 2 ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	080 FEET	0012 GPM.

50-53: 002.0 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY
2 ☐ OBSERVATION WELL
3 ☐ TEST HOLE
4 ☐ RECHARGE WELL
5 ☐ ABANDONED, INSUFFICIENT SUPPLY
6 ☐ ABANDONED, POOR QUALITY
7 ☐ UNFINISHED

WATER USE 01

1 ☒ DOMESTIC
2 ☐ STOCK
3 ☐ IRRIGATION
4 ☐ INDUSTRIAL
☐ OTHER
5 ☐ COMMERCIAL
6 ☐ MUNICIPAL
7 ☐ PUBLIC SUPPLY
8 ☐ COOLING OR AIR CONDITIONING
9 ☐ NOT USED

METHOD OF DRILLING

1 ☒ CABLE TOOL
2 ☐ ROTARY (CONVENTIONAL)
3 ☐ ROTARY (REVERSE)
4 ☐ ROTARY (AIR)
5 ☐ AIR PERCUSSION
6 ☐ BORING
7 ☐ DIAMOND
8 ☐ JETTING
9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Paul Weber — LICENCE NUMBER: 5469

ADDRESS: RR 2 Breslau

NAME OF DRILLER OR BORER: L Clayton Shantz — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [redacted] — SUBMISSION DATE: DAY 30 MO 1 YR 73

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 5469 | DATE RECEIVED: 020273

DATE OF INSPECTION: | INSPECTOR:

REMARKS: | P | WI

OWRC COPY

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 6704990 | MUNICIP. 67012 | CON. CON | 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Wellington	Puslinch	conc. 2	007

[redacted] KITCHENER — DATE COMPLETED: DAY 14 MO. 02 YR. 74

1 2 6704990	17	380131	4810122	4	1045	4	23	MAR 20, 1975	50

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	clay	stones		0	40
"	"	gravel		40	60
Dark brown-hardpan,		sand		60	90
" "	"	" coarse gravel		90	100
" "	sand	gravel		100	106
		gravel		106	107
			Total depth 107 ft.		

31 | 0040605/24 | 0060605/11 | 0090614/28 | 0100614/28/1 | 0106/28/11 | 0107 11

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0107	☒ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
05	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	.188	0	~~106~~ 0106
05	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☒ OPEN HOLE		106	0107
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
☐ PUMP ☒ BAILER	0010 GPM	01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING ☐ PUMPING ☒ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
040 FEET	048 FEET		040 FEET	FEET	FEET	FEET

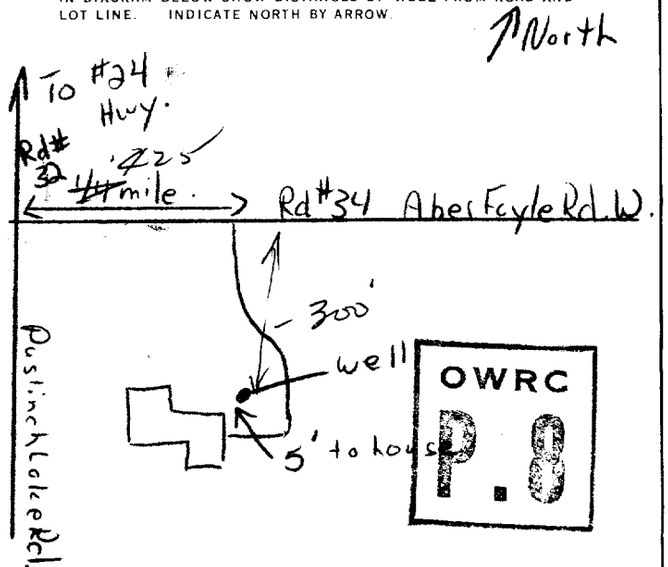
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	☐ CLEAR ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	055 FEET	0010 GPM

50-53: 0.01.3 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

OWRC P.8

FINAL STATUS OF WELL	54
	1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED
WATER USE 01	55-56: 1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF DRILLING	57: 1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: R.H. Gra ham Well Drilling — LICENCE NUMBER: 2336

ADDRESS: 212 Waverley Drive, GUELPH, Ont.

NAME OF DRILLER OR BORER: J. Hawkins — LICENCE NUMBER: 22W71

SIGNATURE OF CONTRACTOR: [redacted] — SUBMISSION DATE: DAY 21 MO. 2 YR. 74

OFFICE USE ONLY

DATA SOURCE 58	CONTRACTOR 59-62	DATE RECEIVED 63-68
1	2336	250274

DATE OF INSPECTION | INSPECTOR

REMARKS: CSS.58

P WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

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11 | 6705884 | MUNICIP. 67012 | CON. C&N | 0.3

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	BLOCK, TRACT, SURVEY, ETC.	LOT
Wellington	Puslinch	3	008

[redacted] RR2 Hespeler

DATE COMPLETED: DAY 01 MO. 04 YR. 75

6705884	11	980215	4810720	4	1060	4	23	AUG 09, 1977	320

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	Dug Well			0	15
Grey	clay			15	45
Grey	clay Hardpan			45	77
Grey	Broken Limestone			77	79
Grey	Limestone			79	97

31 | 0015 | 23 | 0045205 | 0077205 14 | 0079215 71 | 0097215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0087	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06 6¼	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0079 79
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	0007 GPM.	01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
037 FEET	090 FEET	047 FEET	037 FEET	037 FEET	037 FEET

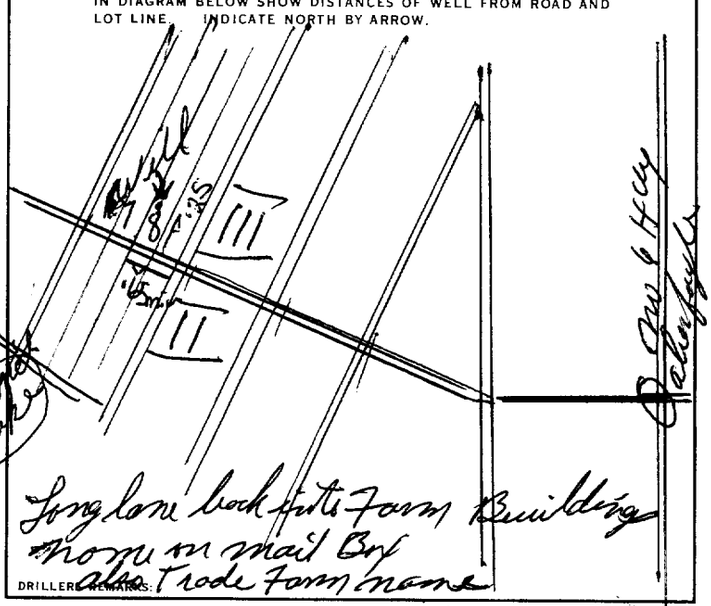
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	080 FEET	0007 GPM

50-53 ___.___ GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 6010

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.


Well
Concrete
Barn
Hydro Pole
Concrete
Concrete
Concrete

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

40 P/82

1. PRINT ONLY IN SPACES PROVIDED
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11 6706720 MUNICIP. 67012 CON. CON 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	PART
WELL. Co.	PUSLINCH TWP	CON. 2	007
[redacted]	7 GUELPH	DATE COMPLETED DAY 05 MO. ~~JUNE~~ 06 YR. 78	

[redacted] 10980 RC 4 ELEVATION 1030 RC 4 BASIN CODE 23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
	GRAVEL	SAND	STONEY	0	15
	SAND			15	100
	GRAVEL		FINE	100	111

31 00 15 11 28 87 01 00 28 01 11 29

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0100 ~~100 110~~	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
04	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0111
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

7 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	0010 GPM	03 HOUR 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☐ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
048 FEET	050 FEET	FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE ___ GPM | PUMP INTAKE SET AT ___ FEET | WATER AT END OF TEST 1 ☐ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE ☐ SHALLOW ☒ DEEP | RECOMMENDED PUMP SETTING 060 FEET | RECOMMENDED PUMP RATE 0008 GPM

GPM./FT. SPECIFIC CAPACITY

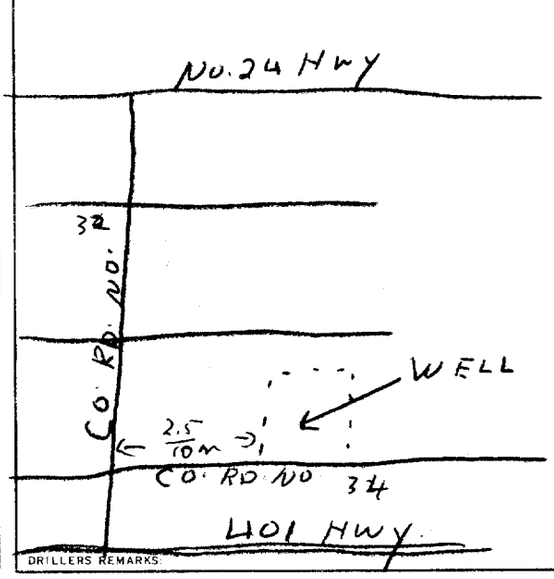
FINAL STATUS OF WELL 1
1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01
1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 1
1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

CONTRACTOR
NAME OF WELL CONTRACTOR: HARVEY HILL WELL DRILLING | LICENCE NUMBER: 2564
ADDRESS: RR1 ELORA ONT.
NAME OF DRILLER OR BORER | LICENCE NUMBER
SIGNATURE OF CONTRACTOR: [redacted] | SUBMISSION DATE DAY ___ MO. ___ YR. ___

OFFICE USE ONLY
DATA SOURCE 1 | CONTRACTOR 2564 | DATE RECEIVED 070778
DATE OF INSPECTION July 1979 | INSPECTOR 39
REMARKS: CSS.S8 | P | WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

6708332

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	LOT
[redacted]	Puslinch	III	7
[redacted]	Puslinch		DATE COMPLETED DAY 30 MO Nov. YR. 85

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Brown	gravel	stone clay		0	30
Brown	sand	gravel clay		30	50
Gray	clay	sand gravel		50	80
Gray	limestone			80	92

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
90	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6 1/4	1 ☒ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE	188	0	80
6 1/8	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☒ OPEN HOLE		80	92
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP Air 2 ☐ BAILER	9 GPM	1 HOURS 0 MINS

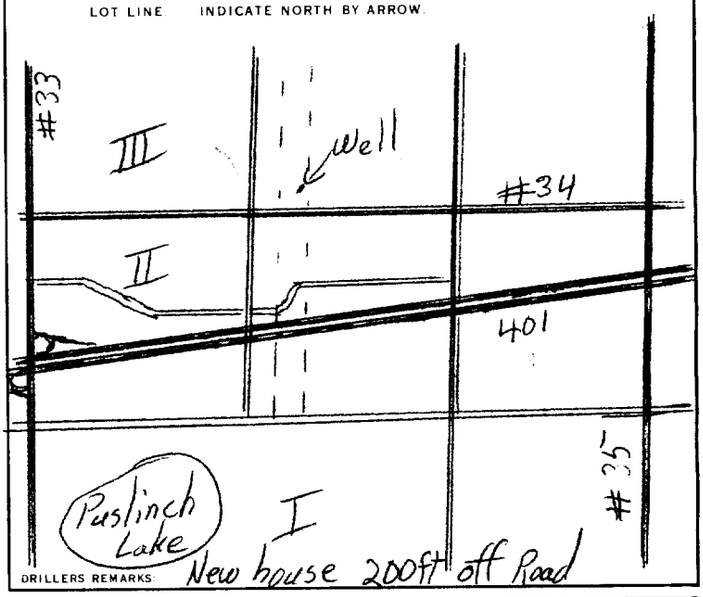
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
34 FEET	92 FEET	40 FEET	35 FEET	35 FEET	34 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	92 FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	85 FEET	9 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS: New house 200ft off Road

FINAL STATUS OF WELL	1 ☒ WATER SUPPLY; 2 ☐ OBSERVATION WELL; 3 ☐ TEST HOLE; 4 ☐ RECHARGE WELL; 5 ☐ ABANDONED, INSUFFICIENT SUPPLY; 6 ☐ ABANDONED, POOR QUALITY; 7 ☐ UNFINISHED
WATER USE	1 ☒ DOMESTIC; 2 ☐ STOCK; 3 ☐ IRRIGATION; 4 ☐ INDUSTRIAL; ☐ OTHER; 5 ☐ COMMERCIAL; 6 ☐ MUNICIPAL; 7 ☐ PUBLIC SUPPLY; 8 ☐ COOLING OR AIR CONDITIONING; 9 ☐ NOT USED
METHOD OF DRILLING	1 ☐ CABLE TOOL; 2 ☐ ROTARY (CONVENTIONAL); 3 ☐ ROTARY (REVERSE); 4 ☒ ROTARY (AIR); 5 ☐ AIR PERCUSSION; 6 ☐ BORING; 7 ☐ DIAMOND; 8 ☐ JETTING; 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Packham Well Drilling Inc. — LICENCE NUMBER: 4207
ADDRESS: 1235 Trinity Rd. Ancaster Ont.
NAME OF DRILLER OR BORER: Mervyn Packham — LICENCE NUMBER: 4207
SIGNATURE OF CONTRACTOR: [redacted] — SUBMISSION DATE: DAY 30 MO Nov. YR. 85

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED 13 01 86
DATE OF INSPECTION | INSPECTOR
REMARKS

CSS.ES

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FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

6710346

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

MUNICIP 6,7,0,1,2 CON. CON 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC	LOT
Wellington	Puslinch	III	8

OWNER (SURNAME FIRST)	ADDRESS	DATE COMPLETED
Van-Del Contracting LTD	RR#1 Breslau Ont N0B 1M0	DAY 8 MO May YR 90

21 ZONE EASTING NORTHING RC. ELEVATION RC. BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Brown	clay	gravel stones		0	5
Grey	clay	silt	soft	5	80
Grey	sand	silt clay		80	94
White	Limestone			94	140

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
125	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS (29 gpm)
138	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	188	0	97
6 1/8	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC		97	140
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP (Air) 2 ☐ BAILER	100 GPM	1 HOURS 0 MINS

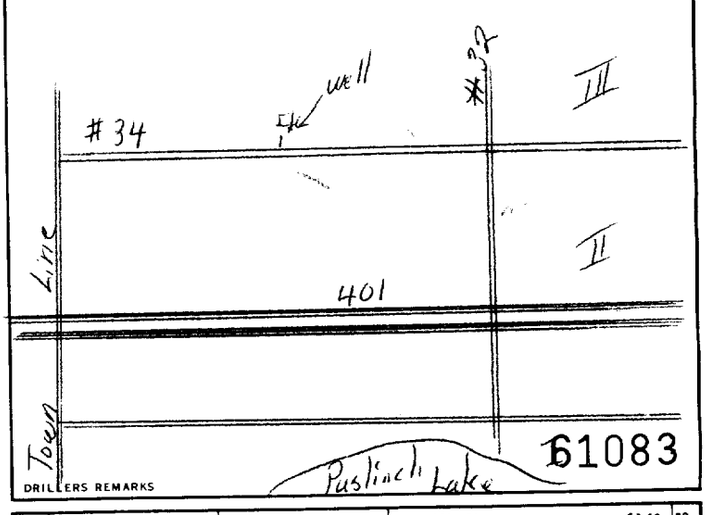
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
37 FEET	140 FEET	37 FEET	37 FEET	37 FEET	37 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	100 FEET	20 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS 61083

FINAL STATUS OF WELL	WATER USE	METHOD OF CONSTRUCTION
1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED ☐ DEWATERING	1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED	1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☒ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING ☐ DIGGING ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Packham Well Drilling Inc.
WELL CONTRACTOR'S LICENCE NUMBER: 4207
ADDRESS: RR#2 Ancaster Ont.
NAME OF WELL TECHNICIAN: Mervyn Packham
WELL TECHNICIAN'S LICENCE NUMBER: T0058
SIGNATURE OF TECHNICIAN/CONTRACTOR: [redacted]
SUBMISSION DATE: DAY 8 MO May YR 90

OFFICE USE ONLY

DATA SOURCE
CONTRACTOR 4207
DATE RECEIVED JUN 26 1990
DATE OF INSPECTION
INSPECTOR
REMARKS

CSS.ES

FORM NO. 0506 (11/86) FORM 9

MINISTRY OF THE ENVIRONMENT COPY

Ministry of Environment and Energy
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 — 6712051

Municipality: 67012 — Con.: CON — 07

County or District: [redacted]

Township/Borough/City/Town/Village: Rushlinch

Con block tract survey, etc.: 7

Lot: 3

Address: [redacted] R.R. #22 Cambridge

Date completed: 06 08 96 (day month year)

Northing — RC — Elevation — RC — Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth – feet From	Depth – feet To
	Gravel	Sand		0	20
	Sand		Fine	20	44
	Gravel	Sand		44	60
Brown	Clay	Sand & Gravel		60	106
	Gravel	Sand	Fine	106	111
	Gravel		Coarse	111	
			Total =	111	
		6" Casing Drive Shoe			

WATER RECORD

Water found at – feet	Kind of water
111	☒ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas

CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth – feet From	Depth – feet To
6"	☒ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	.188	+2	111
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

PLUGGING & SEALING RECORD

☒ Annular space ☐ Abandonment

Depth set at – feet From	To	Material and type (Cement grout, bentonite, etc.)
0	20	Bentonite

PUMPING TEST

Pumping test method: ☒ Pump ☐ Bailer

Pumping rate: 20 GPM

Duration of pumping: 7 Hours ..... Mins

Static level	Water level end of pumping	15 minutes	30 minutes	45 minutes	60 minutes
59 feet	99 feet	69 feet	79 feet	89 feet	99 feet

Water levels during: ☒ Pumping ☐ Recovery

If flowing give rate: GPM

Pump intake set at: feet

Water at end of test: ☒ Clear ☐ Cloudy

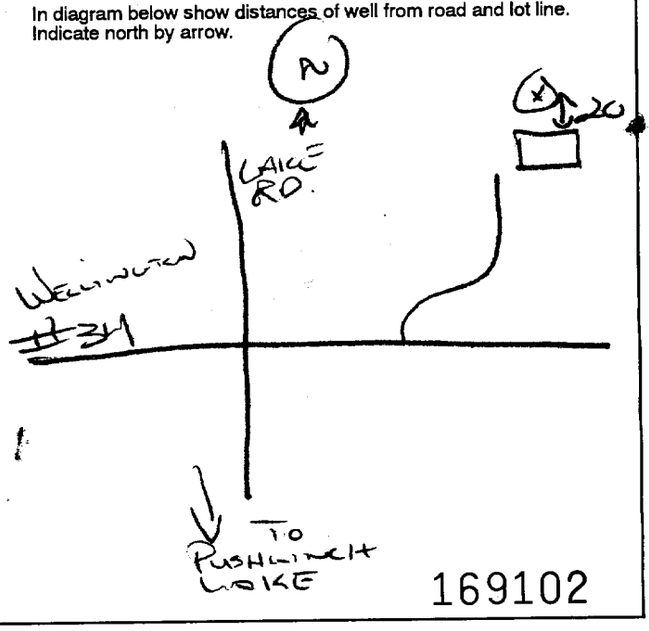
Recommended pump type: ☐ Shallow ☒ Deep

Recommended pump setting: 100 feet

Recommended pump rate: 20 GPM

LOCATION OF WELL

In diagram below show distances of well from road and lot line. Indicate north by arrow.



169102

FINAL STATUS OF WELL

☒ Water supply ☐ Observation well ☐ Test hole ☐ Recharge well ☐ Abandoned, insufficient supply ☐ Abandoned, poor quality ☐ Abandoned (Other) ☐ Dewatering ☐ Unfinished ☐ Replacement well

WATER USE

☒ Domestic ☐ Stock ☐ Irrigation ☐ Industrial ☐ Commercial ☐ Municipal ☐ Public supply ☐ Cooling & air conditioning ☐ Not used ☐ Other .....

METHOD OF CONSTRUCTION

☐ Cable tool ☐ Rotary (conventional) ☐ Rotary (reverse) ☒ Rotary (air) ☐ Air percussion ☐ Boring ☐ Diamond ☐ Jetting ☐ Driving ☐ Digging ☐ Other .....

Name of Well Contractor: Hansen Well Drilling Ltd.

Well Contractor's Licence No.: 2663

Address: R.R. #5 Guelph Ont.

Name of Well Technician: Henry R. Hansen

Well Technician's Licence No.: T-0590

Submission date: 01 09 96 (day mo yr)

[redacted]

MINISTRY USE ONLY

Data source: Contractor 2663

Date received: AUG 27 1996

Date of inspection: Inspector

Remarks

CSS.ES

0506 (07/94) Front Form 9

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Ontario — Ministry of Environment and Energy

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 — 6714539 — Municipality 67012 — Con. CON 03

County or District	Township/Borough/City/Town/Village	Con. Block tract survey, etc.	Lot
[redacted]	PUSLINCH	3	8

Address of Well Location: 6670 WELLINGTON RD. #34

Date completed: 25 07 03 (day month year)

21 — UTM: Zone | Easting | Northing | RC | Elevation | RC | Basin Code | ii | iii | iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
BLACK	TOP SOIL			0	2
BROWN	CLAY	SAND	SOFT	2	85
	GRAVEL			85	92
			TOTAL = 92 FT.		
		6"/4"	CASING DRIVE SHOE		

31

32

41 WATER RECORD

Water found at - feet	Kind of water
92	☑ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
UNTESTED	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6/4	☑ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	.188	+2	92
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic		GRAVEL PACK 90	92
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

61 PLUGGING & SEALING RECORD

☑ Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
0	20	BENTEAL

PUMPING TEST

Pumping test method	Pumping rate	Duration of pumping
☑ Pump ☐ Bailer	20 GPM	Hours Mins

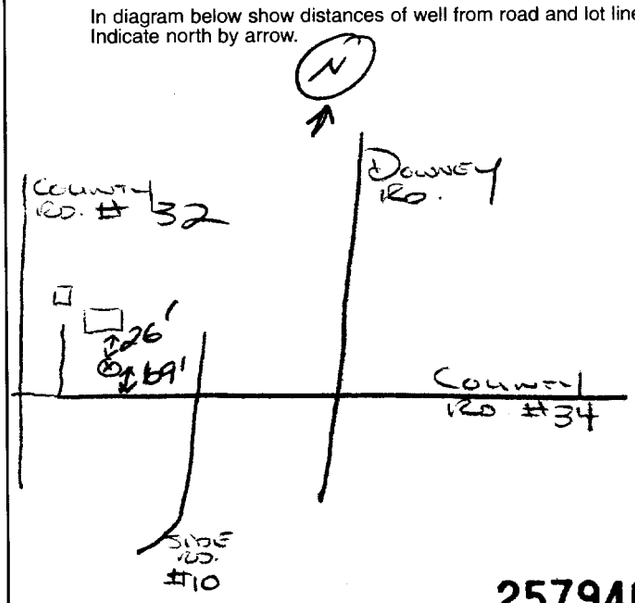
Static level	Water level end of pumping	Water levels during ☑ Pumping ☐ Recovery: 15 minutes	30 minutes	45 minutes	60 minutes
36 feet	40 feet	39 feet	40 feet	40 feet	40 feet

If flowing give rate: GPM — Pump intake set at: feet — Water at end of test: ☑ Clear ☐ Cloudy

Recommended pump type: ☐ Shallow ☑ Deep — Recommended pump setting: 80 feet — Recommended pump rate: 20 GPM

LOCATION OF WELL

In diagram below show distances of well from road and lot line. Indicate north by arrow.



257946

FINAL STATUS OF WELL

☑ Water supply ☐ Observation well ☐ Test hole ☐ Recharge well ☐ Abandoned, insufficient supply ☐ Abandoned, poor quality ☐ Abandoned (Other) ☐ Dewatering ☐ Unfinished ☐ Replacement well

WATER USE

☑ Domestic ☐ Stock ☐ Irrigation ☐ Industrial ☐ Commercial ☐ Municipal ☐ Public supply ☐ Cooling & air conditioning ☐ Not use ☐ Other

METHOD OF CONSTRUCTION

☐ Cable tool ☐ Rotary (conventional) ☐ Rotary (reverse) ☑ Rotary (air) ☐ Air percussion ☐ Boring ☐ Diamond ☐ Jetting ☐ Driving ☐ Digging ☐ Other

Name of Well Contractor	Well Contractor's Licence No.
HANSEN WELL DRILLING LTD	2663
Address: 22 #5 GUELPH ONT. N1H 6J2	
Name of Well Technician: JOHN WHITNEY	Well Technician's Licence No.: T-2790
Signature of Technician/Contractor: [redacted]	Submission date: 01 08 03 (day mo yr)

MINISTRY USE ONLY: Data source | Contractor 2663 | Date received AUG 12 2003 | Date of inspection | Inspector | Remarks

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0506 (06/02) Front Form 9

18-08

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well T A 072033 (Print Below)

A072033

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

[redacted]

County/District/Municipality	City/Town/Village	Province	Postal Code
WELLINGTON	~~GUELPH~~ CAMBRIDGE	Ontario	

6666 WELL. RD #34 RR#22 — E PUSLINCH — 7 — 3

UTM Coordinates: NAD 83, Zone 17, Easting 560189, Northing 4810496

Municipal Plan and Sublot Number:

Other:

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BROWN	CLAY	STONES - SAND		0	18
BROWN	CLAY	SAND		18	45
BROWN	SAND			45	90
BROWN	SAND	GRAVEL		90	94
GREY	CLAY	GRAVEL		94	97
BROWN	LIMESTONE			97	102
			TOTAL	102 FT	

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	20	BENTONITE SLURRY	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☑ Other, specify AIR ROTARY

Well Use

☐ Public ☐ Commercial ☐ Not used
☒ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6 1/8	STEEL	.188	+2	98
6 1/8	OPEN HOLE		98	102

Status of Well

☒ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Water Details

Water found at Depth (m/ft)	Kind of Water	
102 (m/ft)	☒ Fresh ☐ Untested ☐ Gas ☐ Other, specify	
(m/ft)	☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	
(m/ft)	☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20	8 3/4
20	102	6 1/8"

Results of Well Yield Testing

After test of well yield, water was:
☒ Clear and sand free
☐ Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft): 80 FT

Pumping rate (l/min / GPM): 12 GPM

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 43 FT

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 80 FT

Recommended pump rate (l/min / GPM): 12 GPM.

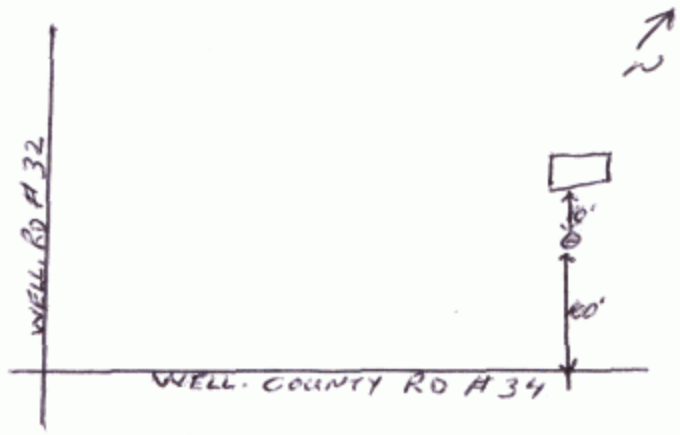
Well production (l/min / GPM): 12 GPM

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	35 FT		
1	38	1	40
2	40	2	38
3	41	3	37
4	41.6	4	36
5	42.6	5	35
10	42.6	10	35
15	43	15	35
20	43	20	35
25	43	25	35
30	43	30	35
40	43	40	35
50	43	50	35
60	43	60	35

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business ~~Name of Well Contractor~~ ADDRESS: 2086 SHANTZ STN. RD

Well Contractor's Licence No.: 7385

Business ~~Address (Street Number~~ Name): JIM WILSON WELL DRILLING

Municipality: BRESLAU.

Province: ON

Postal Code: N0B1M0

Business E-mail Address:

Bus. Telephone No. (inc. area code): 5196482412

Name of Well Technician (Last Name, First Name): WILSON JIM

Well Technician's Licence No.: T1924

Signature of Technician and/or Contractor: [redacted]

Date Submitted: 20080529

Well owner's information package delivered: ☒ Yes ☐ No

Date Package Delivered: 20080505

Date Work Completed: 20080505

Ministry Use Only

Audit No. Z 80621

Received JUN 09 2008

0506E (12/2007)

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Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. (if applicable) **A 087181**

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

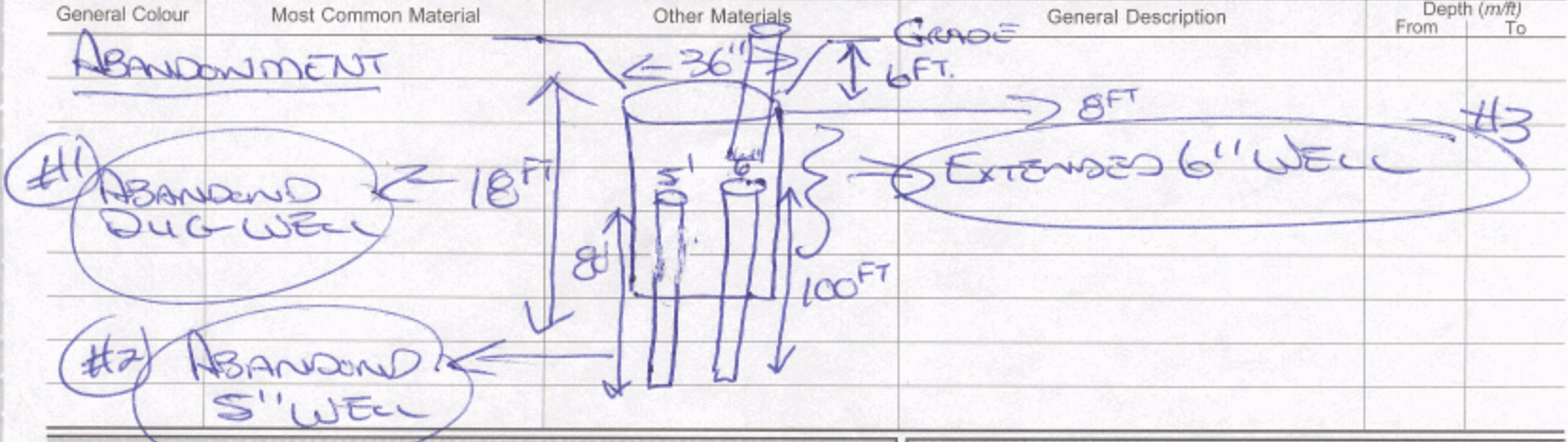
Address of Well Location (Street Number/Name)	Township	Lot	Concession
#6678 WELLINGTON RD. #34 RR#22	PUSLINCH	PT 8	3

County/District/Municipality	City/Town/Village	Province	Postal Code
WELLINGTON	PUSLINCH	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	560290	4810922		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
ABANDONMENT					



Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
#1) 0	18	BENTONITE + GRAVEL (DUG WELL)	
#2) -6	80	BENTONITE (5" WELL)	
		GRAVEL = 6 YARDS	
		BENTONITE = 1850 LBS.	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* ____

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* ____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☑ Alteration (Construction)
☑ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify* ____
☐ Other, *specify* ____

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* ____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Water Details

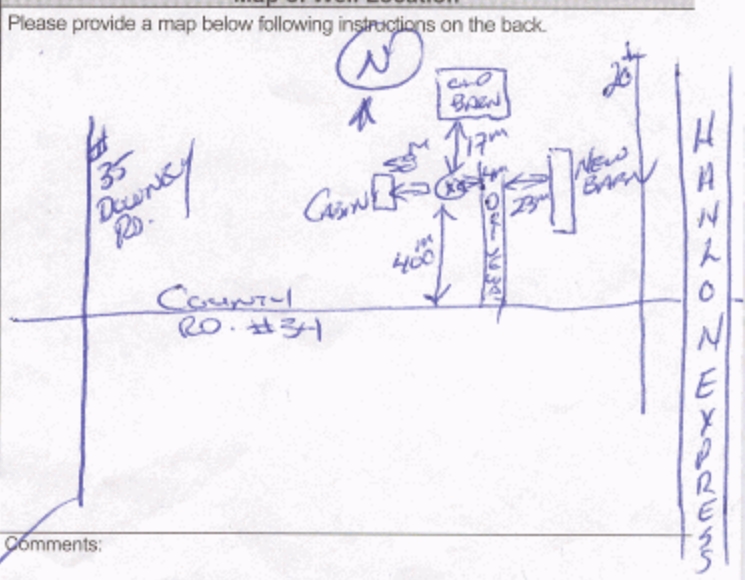
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify* ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify* ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify* ____

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Hannon Well Drilling LTD	2663

Business Address (Street Number/Name)	Municipality
RR#5 GUELPH N1H6J2	WELLINGTON

Province	Postal Code	Business E-mail Address
ONT.	N1H6J2	hanlonwellrilling@bellnet.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
5197638239	HANNON, HENRY

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2663	[redacted]	2009/12/15

Well owner's information package delivered: ☐ Yes ☑ No

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 2009/11/17

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Audit No. Z 107698

Received APR 23 2010

0506E (12/2007)

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Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*

Tag#: A137700

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

[redacted]

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
6669 COUNTY RD #34	PUSLINCH TWP	8	2

County/District/Municipality	City/Town/Village	Province	Postal Code
WELLINGTON		Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	560279	4810368		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BROWN	SAND	STONES		0	51ft
BROWN	SAND			51	90
BROWN	SAND	GRAVEL	WET	90	97
BROWN	LIMESTONE		BROKEN / CLAY LAYERS	97	112
GREY	LIMESTONE		HARD	112	137ft

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	20	GROUT	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☑ Other, *specify* AIR-RE

Well Use

☐ Public ☐ Commercial ☐ Not used
☑ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6"	STEEL	.188	+2	102
6"	OPEN HOLE		102	137

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
	N/A.			

Status of Well

☑ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth	Kind of Water	
105 (m/ft) ☐ Gas	☑ Fresh ☑ Untested ☐ Other, *specify*	
131 (m/ft) ☐ Gas	☑ Fresh ☑ Untested ☐ Other, *specify*	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	137	6"

Results of Well Yield Testing

After test of well yield, water was:
☑ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at (m/ft): 75ft

Pumping rate (l/min / GPM): 40

Duration of pumping: 1 hrs + ___ min

Final water level end of pumping (m/ft): 42

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 75-80ft

Recommended pump rate (l/min / GPM): 15-20

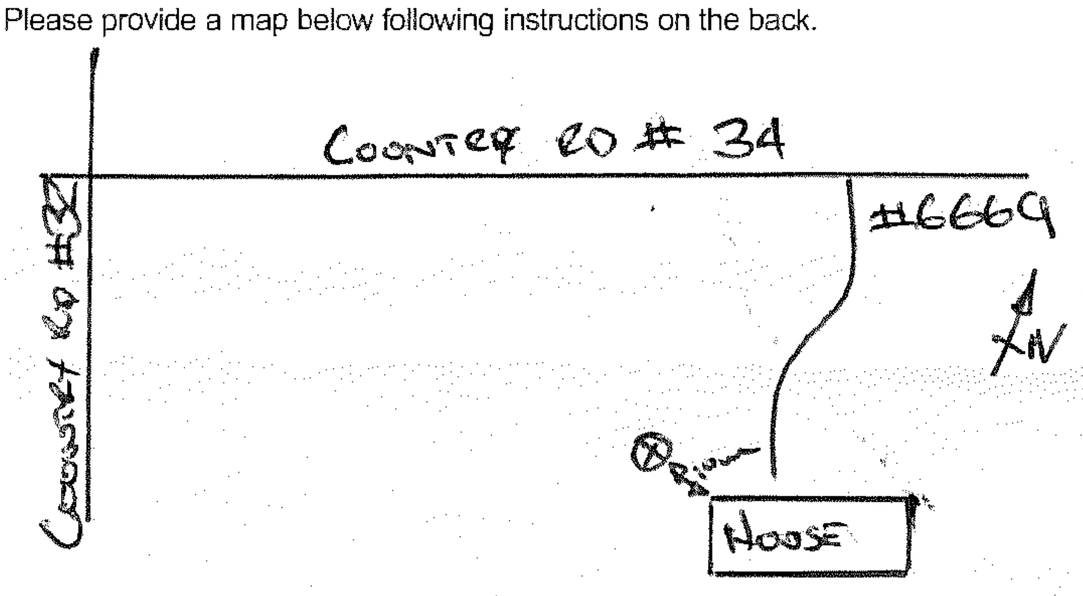
Well production (l/min / GPM): 60+ AIR

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	41ft		
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	42
15		15	
20		20	41
25		25	
30		30	
40		40	
50		50	
60		60	41

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
HIGHLAND WATER WELLS	2576

Business Address (Street Number/Name)	Municipality
Box 141, Durham	

Province	Postal Code	Business E-mail Address
ONT	N0G1R0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
5193696363	POPPLETON, NIGEL

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2130	[redacted]	20130319

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	YYYY MM DD	20130318

Ministry Use Only

Audit No. Z 162250

Rec'd JAN 06 2014

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Ontario

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Go Back to Map

Well ID

Well ID Number: 7262884
Well Audit Number: *Z226390*
Well Tag Number: *A191498*

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	6656 WELLINGSTON RD 34
Township	PUSLINCH TOWNSHIP
Lot	007
Concession	CON 03
County/District/Municipality	WELLINGTON
City/Town/Village	Cambridge
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 560039.00 Northing: 4810550.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	SAND			0 ft	17 ft
	SAND	GRVL		17 ft	30 ft
	SAND	GRVL	CLAY	30 ft	50 ft
BRWN	SAND			50 ft	60 ft

BRWN	SAND	60 ft	101 ft
GREY	LMSN	101 ft	125 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	20 ft	BENTONITE SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
DUAL ROTARY	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6.125 inch	STEEL	-2 ft	103 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7556

Results of Well Yield Testing

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	110 ft
Pumping Rate	12 GPM
Duration of Pumping	1 h:0 m

Final water level	38.333 ft
If flowing give rate	
Recommended pump depth	110 ft
Recommended pump rate	12 GPM
Well Production	
Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	38 ft		
1	38.333 ft	1	38.083 ft
2	38.333 ft	2	38 ft
3	38.333 ft	3	38 ft
4	38.333 ft	4	38 ft
5	38.333 ft	5	38 ft
10	38.333 ft	10	38 ft
15	38.333 ft	15	38 ft
20	38.333 ft	20	38 ft
25	38.333 ft	25	38 ft
30	38.333 ft	30	38 ft
40	38.333 ft	40	38 ft
45		45	
50	38.333 ft	50	38 ft
60	38.333 ft	60	38 ft

Water Details

Water Found at Depth	Kind
125 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	20 ft	10 inch
20 ft	103 ft	6.625 inch
103 ft	125 ft	6 inch

Audit Number: Z226390

Date Well Completed: March 03, 2016

Date Well Record Received by MOE: May 11, 2016

Updated: January 24, 2020

Ontario

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Go Back to Map

Well ID

Well ID Number: 7262885
Well Audit Number: *Z226388*
Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	6656 WELL RD 34
Township	PUSLINCH TOWNSHIP
Lot	007
Concession	CON 03
County/District/Municipality	WELLINGTON
City/Town/Village	Cambridge
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 560654.00 Northing: 4810535.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	108 ft	HOLEPLUG	

Method of Construction & Well Use

Method of Construction	Well Use
	Domestic

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
4 inch	STEEL		

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7556

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production

Disinfected? Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: Z226388

Date Well Completed: March 03, 2016

Date Well Record Received by MOE: May 12, 2016

Updated: January 24, 2020

Appendix C

Stratigraphic and Instrumentation Logs

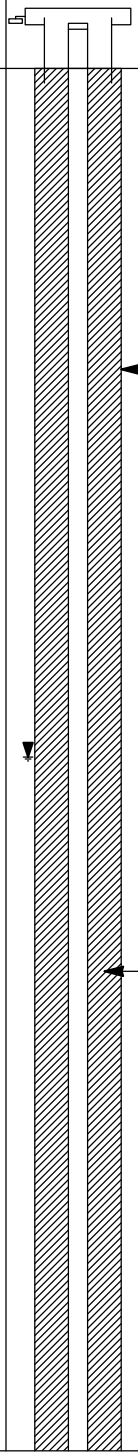
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW1-20
DATE COMPLETED: 19 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

NORTHING: 4810969.38
EASTING: 560291.98

TOP OF RISER	322.96	
GROUND SURFACE	322.26	



DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
	FILL						
2.5	SAND (FILL), with gravel, trace silt and cobbles, fine to coarse grained, brown, moist	319.82	1		75		1.1
3.0	TOPSOIL, sand, silt, with gravel, trace cobbles, cohesive, dark brown, moist	319.36					
	SANDY SILT, with gravel, trace cobbles, cohesive, light brown, moist	319.21	2		100		3.6
			3		100		9.1
			4		100		6.4
			5				3.9
			6		20		4.2

0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

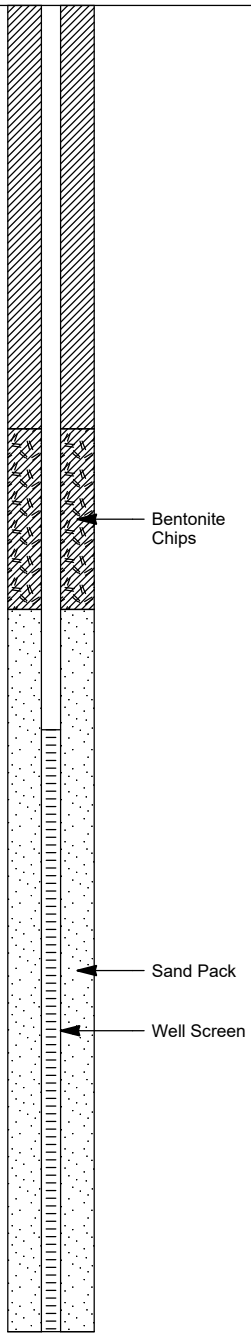
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW1-20
DATE COMPLETED: 19 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS
8.5	SILTY SAND, and gravel, trace cobbles, fine to coarse grained, light brown, moist to wet	313.72
10.0	SAND, with silt and gravel, trace cobbles, fine to medium grained, brown, wet	312.20
12.0	- increase in fine sand and silt, decrease in gravel at 12.19m BGS	
13.5	END OF BOREHOLE @ 13.72m BGS	308.54

MONITOR INSTALLATION



WELL DETAILS
Screened interval:

SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
7		100		4.2
8		100		4.0
9		100		2.4
10		100		4.5
11		100		3.5
12		100		2.2
13		100		1.0
14		100		1.5

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW1-20
DATE COMPLETED: 19 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
14.5	Note: PID readings are reflective of background conditions		311.59 to 308.54mAMSL 10.67 to 13.72m BGS Length: 3.05m Diameter: 51mm Slot Size: #10 Material: PVC Sand Pack: 312.20 to 308.54mAMSL 10.06 to 13.72m BGS Material: Silica					
15.0								
15.5								
16.0								
16.5								
17.0								
17.5								
18.0								
18.5								
19.0								
19.5								
20.0								
20.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

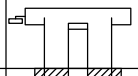
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

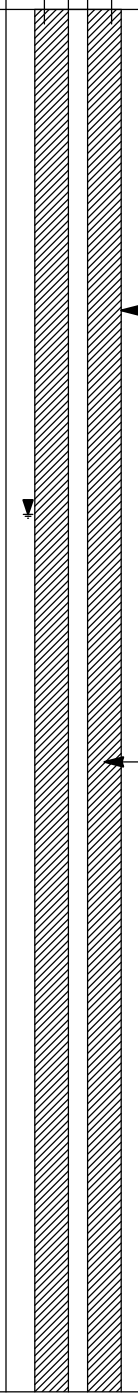
HOLE DESIGNATION: MW2-20
DATE COMPLETED: 20 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

NORTHING: 4810970.37
EASTING: 560486.2

	ELEV. BGS
TOP OF RISER	320.15
GROUND SURFACE	319.50



DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS
	SAND, with gravel, trace silt and cobbles, fine to coarse grained, brown, moist	
	SAND AND GRAVEL, trace silt and cobbles, fine to coarse grained, brown, moist	317.36
	SANDY SILT, with gravel, trace cobbles, fine to coarse grained, light brown, moist to dry	314.09



SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
1		75		2.8
2		75		2.4
3		100		2.5
4		100		3.2
5		100		3.1
6		100		4.9
7		100		4.3
8		100		4.3

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW2-20
DATE COMPLETED: 20 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
7.5								
8.0	- wet at 7.92m BGS		Bentonite Chips					
8.5								
9.0								
9.5				9		100		1.3
10.0				10		100		3.1
10.5			Sand Pack Well Screen					
11.0				11		60		1.7
11.5								
12.0				12		60		2.2
	END OF BOREHOLE @ 12.19m BGS	307.31						
12.5	Note: PID readings are reflective of background conditions							
13.0								
13.5								

WELL DETAILS
Screened interval:
310.35 to 307.31mAMSL
9.14 to 12.19m BGS
Length: 3.05m
Diameter: 51mm
Slot Size: #10
Material: PVC
Sand Pack:
310.96 to 307.31mAMSL
8.53 to 12.19m BGS
Material: Silica

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW3-20
DATE COMPLETED: 20 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

NORTHING: 4811158.33 — TOP OF RISER 323.19
EASTING: 560405.03 — GROUND SURFACE 322.50

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	MONITOR INSTALLATION	SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
	TOPSOIL, sand, silt, with gravel, fine to medium grained, brown, moist, rootlets	322.20						
0.5	SANDY SILT, with gravel, trace cobbles, fine to medium grained, brown, moist			1		90		1.3
1.0				2		90		1.4
1.5			145mm Ø Borehole					
2.0				3		60		2.1
2.5			Bentonite	4		60		2.6
3.0								
3.5				5		60		3.6
4.0								
4.5	- increase in sand and gravel from 4.27 to 4.88m BGS			6		60		3.2
5.0								
5.5				7		60		4.7
	CLAYEY SILT, with sand, trace gravel, hard, semi-plastic, grey-brown, moist	316.71						
6.0			Bentonite Chips					
6.5				8				8.6

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL November 23, 2020

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STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW3-20
DATE COMPLETED: 20 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	MONITOR INSTALLATION	SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
7.5				9		100		11.3
8.0				10		100		12.9
8.5	SILTY SAND, with gravel, fine to coarse grained, brown, moist	313.97		11		100		11.1
9.0	SILT, and clay, with sand and gravel, hard, low plasticity, grey-brown, moist	313.36						
9.5				12		100		5.8
10.0				13		100		5.5
10.5			Sand Pack					
11.0				14		100		5.9
11.5				15		100		7.2
12.0								
12.5				16		100		6.0
13.0			Well Screen	17		100		4.6
13.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW3-20
DATE COMPLETED: 20 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
14.5			WELL DETAILS Screened interval: 311.23 to 308.18mAMSL 11.28 to 14.33m BGS Length: 3.05m Diameter: 51mm Slot Size: #10 Material: PVC Sand Pack: 315.95 to 308.18mAMSL 6.55 to 14.33m BGS Material: Silica	18		100		7.7
15.0				19		100		1.2
15.5	END OF BOREHOLE @ 15.24m BGS Note: PID readings are reflective of background conditions	307.26						
16.0								
16.5								
17.0								
17.5								
18.0								
18.5								
19.0								
19.5								
20.0								
20.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL November 23, 2020

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: BADGER CONESTOGA INC.
PROJECT NUMBER: 11210029
CLIENT: BADGER
LOCATION: 6678 Wellington Road 34, Cambridge

HOLE DESIGNATION: MW4-23
DATE COMPLETED: 22 June 2023
DRILLING METHOD: HSA
FIELD PERSONNEL: T. Hamilton

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH M bgs	Monitoring Well	SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value
	TOPSOIL	0.20					
	SANDY LOAM	0.48				75	7
0.5	SAND (NATIVE) SP, some silt, loose, fine grained, poorly graded, light brown, dry - compact at 0.76m BGS - iron staining at 0.91m BGS					60	11
1.0							
1.5						60	10
2.0		2.29					
2.5	SAND AND GRAVEL (SW), compact, fine to coarse grained, well graded, light brown, dry					70	29
3.0	- dense, grey, trace cobbles at 3.05m BGS					60	44
3.5							
4.0						50	44
4.5						50	48
5.0							
5.5	- very dense at 5.33m BGS - damp, some same sections, small amount of iron staining at 5.49m BGS		Bentonite			50	87
6.0		6.10					
6.5	SAND (SP), compact, medium grained, poorly graded, grey to light brown, dry - damp at 6.60m BGS					60	33
	SAND AND GRAVEL (SW), with some silt, very	6.83					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

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STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: BADGER CONESTOGA INC.
PROJECT NUMBER: 11210029
CLIENT: BADGER
LOCATION: 6678 Wellington Road 34, Cambridge

HOLE DESIGNATION: MW4-23
DATE COMPLETED: 22 June 2023
DRILLING METHOD: HSA
FIELD PERSONNEL: T. Hamilton

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH M bgs	Monitoring Well	SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value
	dense, coarse grained, well graded, brown, damp					60	94
7.5	- cobbles at 7.62m BGS						
8.0	- increasing silt at 8.08m BGS					80	91
	SILTY SAND (SP), with trace gravel, dense, fine grained, poorly graded, brown, damp	8.36					
8.5						100	45
9.0							
9.5						100	50
10.0							
10.5							
11.0						100	55
11.5							
12.0	- moist to wet, less silt at 12.19m BGS						
12.5	- iron staining on cobbles at 12.65m BGS					90	56
13.0							
13.5			Sand				
	- saturated, fine layering/bedding in sand at 13.72m BGS		Screen				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

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STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: BADGER CONESTOGA INC.
PROJECT NUMBER: 11210029
CLIENT: BADGER
LOCATION: 6678 Wellington Road 34, Cambridge

HOLE DESIGNATION: MW4-23
DATE COMPLETED: 22 June 2023
DRILLING METHOD: HSA
FIELD PERSONNEL: T. Hamilton

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH M bgs	Monitoring Well	SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value
14.5	- compact at 14.45m BGS					100	43
15.0						100	21
	END OF BOREHOLE @ 15.24m BGS	15.09	COMPLETION DETAILS Screened interval: 12.19 to 15.24m BGS Length: 3.05m Diameter: 51mm Slot Size: 10 Material: PVC Seal: 0.00 to 11.58m BGS Material: Bentonite Sand Pack: 11.58 to 15.24m BGS Material: Sand				
15.5							
16.0							
16.5							
17.0							
17.5							
18.0							
18.5							
19.0							
19.5							
20.0							
20.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

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STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: BADGER CONESTOGA INC.
PROJECT NUMBER: 11210029
CLIENT: BADGER
LOCATION: 6678 Wellington Road 34, Cambridge

HOLE DESIGNATION: MW5-23
DATE COMPLETED: 22 June 2023
DRILLING METHOD: HSA
FIELD PERSONNEL: T. Hamilton

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH M bgs	Monitoring Well	SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value
	TOPSOIL						
	SAND (NATIVE), trace silt, light brown, dry	0.20				75	7
0.5		0.61					
	SAND, light brown, dry, fine grained - dark brown staining from 0.91 to 1.07m BGS					50	3
1.0							
1.5						50	9
2.0							
	FILL-SAND, light brown, dry, fine grained	2.29				75	15
2.5							
3.0						75	22
3.5							
	SAND AND GRAVEL (SW), dense, compact, fine to coarse grained, light brown, dry	3.81				90	82
4.0							
4.5		4.57					
	SAND AND GRAVEL, compact, fine to coarse grained, very dense, trace cobbles, light brown/light grey, dry					75	77
5.0							
5.5			Bentonite			75	84
	- iron staining at 5.79m BGS						
6.0	- one rock, poor sample, rock refusal from 6.10 to 6.71m BGS						
6.5							
	SAND AND GRAVEL, dense, fine to coarse	6.86					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

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STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: BADGER CONESTOGA INC.
PROJECT NUMBER: 11210029
CLIENT: BADGER
LOCATION: 6678 Wellington Road 34, Cambridge

HOLE DESIGNATION: MW5-23
DATE COMPLETED: 22 June 2023
DRILLING METHOD: HSA
FIELD PERSONNEL: T. Hamilton

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH M bgs	Monitoring Well	SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value
	grained, cobbles, light brown, dry	7.47			X	50	54
7.5	SAND AND GRAVEL, fine to coarse grained, trace cobbles, light brown, dry	7.92			X	75	35
8.0	SAND AND GRAVEL, coarse grained, trace clay, gravel, brown, damp	8.38			X	40	51
8.5	SAND AND GRAVEL, trace silt, wet, brown, cobbles	9.14			X	50	27
9.0	SILTY SAND AND GRAVEL, wet, brown, dense	9.60				30	62
9.5	SAND, with gravel, trace silt, damp, brown, dense	9.91			X	50	32
10.0	SAND AND GRAVEL, trace silt, trace cobbles, moist, brown, dense	10.67			X	30	29
10.5	SAND, dense, trace silt, trace gravel, trace cobbles, brown, wet	12.19					
11.0							
11.5							
12.0							
12.5	SAND, dense, trace silt, trace gravel, trace cobbles, brown, saturated	13.72	Sand Screen		X		
13.0							
13.5	SAND, saturated, trace gravel, brown, loose				X		

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

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STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: BADGER CONESTOGA INC.
PROJECT NUMBER: 11210029
CLIENT: BADGER
LOCATION: 6678 Wellington Road 34, Cambridge

HOLE DESIGNATION: MW5-23
DATE COMPLETED: 22 June 2023
DRILLING METHOD: HSA
FIELD PERSONNEL: T. Hamilton

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH M bgs	Monitoring Well	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value
14.5						100	7
15.0	END OF BOREHOLE @ 14.94m BGS	14.94	COMPLETION DETAILS Screened interval: 11.89 to 14.94m BGS Length: 3.05m Diameter: 51mm Slot Size: 10 Material: PVC Seal: 0.00 to 7.92m BGS Material: Bentonite Sand Pack: 11.28 to 14.94m BGS Material: Sand				
15.5							
16.0							
16.5							
17.0							
17.5							
18.0							
18.5							
19.0							
19.5							
20.0							
20.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

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TABLE 1

MONITORING WELL AND DRIVE-POINT (WETLAND) PIEZOMETER CONSTRUCTION DETAILS

Monitoring Location	Ground Elevation (mAMSL)	Top of Casing Elevation (mAMSL)	Screened Interval Top (mBGS)	Screened Interval Bottom (mBGS)	Screened Interval Top (mAMSL)	Screened Interval Bottom (mAMSL)	Borehole Depth from (mBGS)	Borehole Depth to (mBGS)	Geologic Description
BH204	318.71	319.63	13.2	14.7	305.51	304.01	0	0.2	Topsoil
							0.2	4.0	Silty Sand
							4.0	14.6	Sand and Gravel
							14.6	18.3	Clayey Silt Till
BH205	315.52	316.57	14.4	15.9	301.12	299.62	0	0.3	Topsoil
							0.3	6.0	Sand and Gravel
							6.0	24.4	Silty Fine Sand
BH213	324.79	325.56	20.1	21.6	304.69	303.19	0	0.3	Topsoil
							0.3	22.0	Sand and Gravel
							22.0	24.4	Clayey Silt Till
BH214	324.30	325.17	8.3	9.8	316.00	314.50	0	0.4	Topsoil
							0.4	10.1	Sand and Gravel
							10.1	12.2	Clayey Silt Till
BH219	330.21	331.21	15.0	16.5	315.21	313.71	0	0.2	Topsoil
							0.2	15.2	Sand and Gravel
							15.2	22.9	Clayey Silt Till
A3	315.6 *	316.4 *	1.19	1.49	314.4	314.1	0	1.22	black muck to peat, wet
							1.22	1.37	grey clayey silt with black organic layers, wet
A4	316.7 *	317.6 *	1.09	1.39	315.6	315.3	0	0.76	grey to brown silt, dry
							0.76	1.07	grading to brown silty clay
							1.07	1.22	grading to brown clayey sand and silt, stones, wet
							1.22	1.37	silty sand, some stones, minor clay, wet
A5	313.9 *	314.5 *	1.09	1.39	312.8	312.5	0	0.61	black muck to peat, wet
							0.61	0.76	grey silty fine sand, wet, auger refusal - borehole does not stay open
A8	317.0 *	317.9 *	0.37	0.67	316.6	316.3	0	0.20	black muck, organics, auger refusal, stones (sandy)
A10	315.4 *	316.3 *	1.66	1.96	313.7	313.4	0	0.20	black muck
							0.20	1.22	silty fine sand, brown to tan at 1.22 m, wet
TP319	319.0 *	319.9 *	1.06	2.58	317.9	316.4	0	0.91	dark brown sand, boulders, trace silt, moist
							0.91	2.59	light brown, sand and cobbles/boulders up to 15 cm, wet at 1.98 mBGS

Notes:
(1) mAMSL = metres above mean sea level
(2) mBGS = metres below ground surface
(3) 315.4 * Ground surface elevations estimated from Site topographic mapping, "Existing Features", Harrington and Hoyle Ltd., February 1997.
(4) Monitoring well details obtained from borehole logs in Trow Consulting Engineers Ltd., "Gravel Resource Evaluation" report, March 24 1997.
(5) Piezometer (A3-A10) details obtained from Table 1, Terraqua "Hydrogeologic Assessment" Report, August 1997.
(6) TP319 details from field notes by Stantec, April 1999.

TABLE 2

GROUNDWATER LEVEL DATA
MONITORING WELLS

Date	BH204 Groundwater Elevation (m AMSL)	BH204 Groundwater Depth (m BGS)	BH205 Groundwater Elevation (m AMSL)	BH205 Groundwater Depth (m BGS)	BH213 Groundwater Elevation (m AMSL)	BH213 Groundwater Depth (m BGS)	BH214 Groundwater Elevation (m AMSL)	BH214 Groundwater Depth (m BGS)	BH219 Groundwater Elevation (m AMSL)	BH219 Groundwater Depth (m BGS)
15-Apr-97	307.68	11.03	307.47	8.06	315.79	9.00	315.85	8.45	316.55	13.66
26-May-97	307.64	11.07	307.46	8.06	315.50	9.29	315.53	8.77	316.34	13.87
11-Jun-97	307.58	11.14	307.42	8.10	315.37	9.42	315.49	8.81	316.29	13.92
25-Jun-97	307.68	11.03	307.45	8.07	315.44	9.35	315.51	8.79	316.35	13.86
9-Jul-97	307.73	10.98	307.48	8.04	315.46	9.33	315.54	8.76	316.46	13.75
22-Jul-97	307.27	11.44	307.15	8.37	314.98	9.82	315.16	9.14	316.13	14.08
30-Jul-97	307.21	11.50	307.09	8.43	314.87	9.93	315.11	9.19	316.11	14.10
15-Sep-97	306.83	11.88	306.84	8.68	314.27	10.52	314.82	9.48	315.87	14.34
15-Oct-97	306.47	12.24	306.59	8.93	313.83	10.96	314.55	9.75	315.46	14.75
17-Nov-97	306.37	12.34	306.56	8.96	313.69	11.10	dry @ 314.37	dry @ 9.93	315.52	14.69
17-Dec-97	306.19	12.53	306.46	9.06	313.53	11.26	dry @ 314.37	dry @ 9.93	315.43	14.79
21-Jan-98	306.11	12.60	306.50	9.02	313.59	11.21	314.85	9.45	315.48	14.73
10-Jun-98	306.63	12.09	306.68	8.84	314.52	10.27	315.15	9.15	316.07	14.14
23-Oct-98	305.66	13.05	305.88	9.64	313.26	11.53	314.45	9.85	315.35	14.86
24-Dec-98	305.25	13.46	305.64	9.88	312.89	11.90	314.43	9.87	315.06	15.15
6-Apr-99	305.37	13.34	305.90	9.62	313.12	11.67	314.90	9.40	315.10	15.11
18-Jun-99	305.33	13.38	305.65	9.87	313.22	11.57	314.70	9.60	315.27	14.94
22-Sep-99	305.02	13.69	305.10	10.42	312.68	12.11	dry @ 314.37	dry @ 9.93	314.94	15.27
19-Nov-99	304.94	13.77	305.28	10.24	312.59	12.20	314.56	9.74	314.81	15.40
5-Apr-00	305.05	13.66	305.43	10.09	312.92	11.87	dry @ 314.37	dry @ 9.93	314.96	15.25
16-Jun-00	305.48	13.23	305.98	9.55	313.85	10.94	315.30	9.00	315.64	14.58
19-Sep-00	305.64	13.08	305.94	9.58	313.75	11.04	314.97	9.33	315.74	14.47
7-Dec-00	305.43	13.29	305.79	9.74	313.27	11.52	dry @ 314.37	dry @ 9.93	315.37	14.84
19-Mar-01	na	na	305.99	9.53	313.60	11.20	315.47	8.83	315.43	14.78
14-Jun-01	305.93	12.78	306.25	9.27	314.20	10.59	315.29	9.01	315.95	14.26
1-Oct-01	306.12	12.59	305.67	9.85	315.25	9.54	314.59	9.71	315.19	15.02
15-Dec-01	305.47	13.24	305.81	9.71	313.18	11.62	314.56	9.75	315.23	14.98
1-Apr-02	305.63	13.08	306.12	9.40	313.92	10.88	315.66	8.64	315.69	14.52
4-Jul-02	306.23	12.48	306.45	9.07	314.68	10.11	315.99	8.32	316.12	14.09
30-Sep-02	305.87	12.84	305.96	9.56	313.70	11.10	315.31	8.99	315.49	14.72
10-Dec-02	305.57	13.15	305.73	9.79	313.02	11.77	314.46	9.84	315.28	14.93
8-Apr-03	305.30	13.41	305.77	9.75	313.33	11.47	314.71	9.59	315.26	14.95
15-Jul-03	305.75	12.97	306.03	9.49	313.80	11.00	315.61	8.69	315.74	14.47
20-Oct-03	305.63	13.08	305.85	9.67	313.93	10.86	314.60	9.70	315.67	14.54
21-Dec-03	305.96	12.76	306.20	9.32	314.33	10.46	316.18	8.12	316.02	14.20
24-Mar-04	306.13	12.59	306.49	9.03	314.71	10.08	316.26	8.04	316.16	14.05
3-Aug-04	305.69	13.02	306.66	8.86	316.11	8.69	314.47	9.83	316.06	14.15
8-Oct-04	306.24	12.48	306.30	9.22	314.25	10.54	315.22	9.08	315.69	14.53
13-Dec-04	306.28	12.43	306.22	9.30	313.96	10.84	314.47	9.83	315.84	14.37
5-Apr-05	306.08	12.63	306.61	8.91	314.58	10.22	316.43	7.88	316.19	14.02
15-Jun-05	306.50	12.22	306.61	8.91	314.48	10.31	316.00	8.30	315.66	14.55
17-Oct-05	306.29	12.42	306.25	9.27	314.05	10.74	315.20	9.10	315.91	14.30
15-Dec-05	306.02	12.69	306.22	9.30	314.21	10.58	314.99	9.31	315.98	14.23
6-Apr-06	306.53	12.18	307.84	7.68	314.83	9.96	316.47	7.83	316.48	13.73
7-Jul-06	306.43	12.28	306.67	8.85	315.51	9.28	316.01	8.29	317.79	12.42
13-Oct-06	306.77	11.94	306.64	8.88	314.67	10.12	315.59	8.71	315.89	14.32
20-Dec-06	306.87	11.84	306.93	8.59	315.20	9.59	316.74	7.56	316.10	14.11
15-Mar-07	306.82	11.89	307.00	8.52	315.14	9.65	316.15	8.15	316.06	14.15
23-Jul-07	306.93	11.78	306.68	8.84	314.24	10.55	315.85	8.45	315.90	14.31
29-Oct-07	306.09	12.63	306.10	9.42	313.38	11.41	dry @ 314.37	dry @ 9.93	315.49	14.72
14-Dec-07	305.89	12.82	306.02	9.50	313.29	11.50	dry @ 314.37	dry @ 9.93	315.43	14.78
27-Mar-08	306.21	12.50	306.56	8.96	314.83	9.96	316.03	8.27	316.04	14.17
26-Jun-08	306.76	11.95	306.97	8.55	315.19	9.60	315.81	8.49	316.17	14.04
6-Oct-08	306.52	12.19	306.96	8.56	315.04	9.75	316.03	8.27	315.98	14.23
7-Dec-08	306.89	11.82	306.89	8.63	314.74	10.05	315.93	8.37	315.98	14.23
25-Mar-09	307.52	11.19	307.48	8.04	315.96	8.83	316.63	7.67	316.34	13.87
22-Jul-09	307.25	11.46	307.32	8.20	315.47	9.32	315.88	8.42	316.18	14.03
7-Oct-09	306.82	11.89	306.97	8.55	314.81	9.98	315.40	8.90	315.91	14.31
8-Jan-10	306.39	12.32	306.65	8.87	314.28	10.51	315.03	9.27	315.81	14.40
1997 to 2008										
Maximum	307.73	13.77	307.84	10.42	316.11	12.20	316.74	9.93	317.79	15.40
Minimum	304.94	10.98	305.10	7.68	312.59	8.69	314.37	7.56	314.81	12.42

Notes:

Exceeds historical maximum groundwater elevation recorded at this location

Falls below historical minimum groundwater elevation recorded at this location

(1) mAMSL = metres above mean sea level
(2) mBGS = metres below ground surface
(3) na = not available
(4) January and February 1997 data collected by Trow Consulting Engineers Ltd.

TABLE 4
GROUNDWATER LEVEL DATA - WETLAND PIEZOMETERS

Date	A3 Groundwater Level (mAMSL)	A3 Groundwater Level (mBGS) [1]	A3 Surface Water Level (mAMSL)	A3 Vertical Hydraulic Gradient	A4 Groundwater Level (mAMSL)	A4 Groundwater Level (mBGS) [1]	A5 Groundwater Level (mAMSL)	A5 Groundwater Level (mBGS) [1]	A5 Surface Water Level (mAMSL)	A5 Vertical Hydraulic Gradient
23-Jul-97	nm	nm	315.62	nm	315.55	1.15	nm	nm	313.78	nm
30-Jul-97	314.75	0.85	315.59	Downward	315.51	1.19	313.72	0.18	313.78	Downwards
15-Sep-97	315.53	0.08	nm	nm	315.43	1.27	313.81	0.09	313.84	Downwards
15-Oct-97	315.58	0.02	nm	nm	315.39	1.31	313.94	-0.04	313.88	Upwards
17-Nov-97	315.58	0.03	315.59	Downward	315.46	1.24	313.98	-0.08	313.96	Upwards
17-Dec-97	315.60	0.00	315.61	Downward	315.47	1.23	313.97	-0.07	313.97	No gradient
21-Jan-98	frozen	nm	nm	nm	315.62	1.08	frozen	frozen	nm	nm
10-Jun-98	315.60	0.00	315.60	No gradient	315.54	1.16	313.76	0.14	nm	nm
23-Oct-98	314.99	0.61	dry	nm	dry @ 315.28	1.42	313.32	0.58	dry	nm
24-Dec-98	315.08	0.52	dry	nm	dry @ 315.28	1.42	313.72	0.18	dry	nm
6-Apr-99	315.66	-0.06	frozen @ 315.73	nm	315.59	1.11	314.15	-0.25	313.94	Upwards
18-Jun-99	315.51	0.09	dry	nm	315.39	1.31	313.72	0.18	dry	nm
22-Sep-99	dry @ 313.73	1.88	dry	nm	dry @ 315.28	1.42	dry @ 312.50	1.40	dry	nm
19-Nov-99	316.15	-0.55	dry	nm	dry @ 315.28	1.42	313.84	0.06	dry	nm
5-Apr-00	315.53	0.07	dry	nm	315.44	1.26	313.90	0.00	313.87	Upwards
16-Jun-00	315.82	-0.22	315.79	Upwards	316.71	-0.01	313.96	-0.06	313.91	Upwards
19-Sep-00	315.54	0.07	dry	nm	315.43	1.27	313.68	0.22	dry	nm
7-Dec-00	315.34	0.26	dry	nm	dry @ 315.28	1.42	frozen @ 313.88	0.02	frozen @ 313.85	nm
19-Mar-01	dry @ 313.73	1.88	nm	nm	315.63	1.07	314.13	-0.23	snow	nm
14-Jun-01	315.70	-0.10	315.69	Upwards	315.61	1.09	313.86	0.04	313.85	Upwards
1-Oct-01	315.05	0.55	dry	nm	dry @ 315.28	1.42	313.27	0.63	dry	nm
15-Dec-01	315.56	0.04	315.61	Downwards	315.46	1.24	313.88	0.02	313.83	Upwards
1-Apr-02	315.73	-0.13	frozen @ 315.73	nm	315.64	1.06	313.86	0.04	313.94	Downwards
4-Jul-02	315.72	-0.12	315.71	Upwards	315.66	1.04	313.80	0.10	313.79	Upwards
30-Sep-02	315.21	0.40	dry	nm	dry @ 315.28	1.42	313.31	0.59	dry	nm
10-Dec-02	315.09	0.51	dry	nm	dry @ 315.28	1.42	313.51	0.39	dry	nm
8-Apr-03	315.57	0.03	frozen @ 315.83	nm	315.53	1.17	frozen @ 313.86	0.04	frozen @ 313.88	nm
15-Jul-03	315.63	-0.02	dry	nm	315.54	1.16	313.62	0.28	dry	nm
20-Oct-03	315.55	0.05	315.60	Downwards	315.48	1.22	313.77	0.13	313.74	Upwards
21-Dec-03	frozen @ 315.73	-0.13	frozen @ 315.76	nm	315.65	1.05	frozen @ 313.87	0.03	frozen @ 313.81	nm
24-Mar-04	frozen @ 315.84	-0.24	snow @ 315.94	nm	315.68	1.02	frozen @ 313.92	-0.02	snow @ 313.97	nm
3-Aug-04	315.63	-0.03	315.62	Upwards	315.58	1.12	313.68	0.22	dry	nm
8-Oct-04	315.32	0.28	dry	nm	dry @ 315.28	1.42	313.32	0.58	dry	nm
13-Dec-04	315.56	0.04	315.64	Downwards	315.50	1.20	frozen @ 313.78	0.12	frozen @ 313.75	nm
5-Apr-05	frozen @ 315.72	-0.11	frozen @ 315.80	nm	315.78	0.92	313.92	-0.02	313.87	Upwards
15-Jun-05	315.61	-0.01	315.62	Downwards	315.58	1.12	313.68	0.22	313.7	Downwards
17-Oct-05	315.49	0.11	dry	nm	315.45	1.25	313.6	0.30	dry	nm
15-Dec-05	315.61	-0.01	frozen @ 315.68	nm	315.60	1.10	313.82	0.08	frozen @ 313.86	nm
31-Mar-06	315.73	-0.13	315.69	Upwards	315.75	0.95	313.79	0.11	313.78	Downwards
6-Apr-06	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm
7-Jul-06	315.50	0.10	315.48	Upwards	316.75	-0.05	313.68	0.22	313.69	Downwards
13-Oct-06	314.49	1.11	315.64	Downwards	315.61	1.09	313.76	0.14	313.76	No gradient
20-Dec-06	frozen @ 315.54	0.06	nm	nm	frozen @ 316.91	-0.21	frozen @ 313.83	0.07	nm	nm
15-Mar-07	frozen @ 315.70	-0.10	316.40	nm	316.96	-0.26	313.88	0.02	314.50	Downwards
23-Jul-07	dry @ 313.73	1.88	dry	nm	316.69	0.01	dry @ 312.50	1.40	dry	nm
29-Oct-07	314.98	0.62	dry	nm	dry @ 315.35	1.35	313.17	0.73	dry	nm
14-Dec-07	315.14	0.46	nm	nm	315.52	1.18	313.56	0.34	nm	nm
27-Mar-08	frozen @ 315.90	-0.30	snow	nm	315.66	1.04	frozen @ 314.04	-0.14	snow @ 314.04	nm
26-Jun-08	315.66	-0.05	315.66	No gradient	315.67	1.03	313.61	0.29	313.61	No gradient
6-Oct-08	315.66	-0.06	315.70	Downwards	315.69	1.01	313.65	0.25	313.64	Upwards
7-Dec-08	frozen	frozen	frozen	nm	315.64	1.06	frozen	frozen	frozen	nm
27-Mar-09	**frozen**	**frozen**	**frozen**	**nm**	**315.76**	**0.94**	**frozen**	**frozen**	**frozen**	**nm**
22-Jul-09	**315.59**	**0.01**	**315.60**	**Downwards**	**315.67**	**1.03**	**313.59**	**0.31**	**dry**	**nm**
7-Oct-09	**315.49**	**0.11**	**315.54**	**Downwards**	**315.55**	**1.15**	**313.63**	**0.27**	**313.63**	**Upwards**
8-Jan-10	**315.58**	**0.02**	**frozen**	**nm**	**315.53**	**1.17**	**313.76**	**0.14**	**frozen**	**nm**
1997 to 2008										
Maximum	316.15	-0.55	-	-	316.96	-0.26	314.15	-0.25	-	-
Minimum	313.73	1.88	-	-	315.28	1.42	312.50	1.40	-	-

Notes:

Exceeds historical maximum groundwater elevation or groundwater level fluctuation recorded at this location

Falls below historical minimum groundwater elevation recorded at this location

[1] = Negative value indicates that water level in piezometer is above ground surface
mAMSL = meters above mean sea level
mBGS = meters below ground surface
nm = not measured
ni = not installed
na = not applicable, piezometer not installed in surface water body
dry = water level was not observed within piezometer pipe or at ground surface

TABLE 4
GROUNDWATER LEVEL DATA - WETLAND PIEZOMETERS

Date	A8				A10				TP319	
	Groundwater Level		Surface Water Level	Vertical Hydraulic Gradient	Groundwater Level		Surface Water Level	Vertical Hydraulic Gradient	Groundwater Level	
	(mAMSL)	(mBGS)	(mAMSL)		(mAMSL)	(mBGS)	(mBTOP)		(mAMSL)	(m BGS)
23-Jul-97	317.27	-0.27	317.09	Upwards	314.80	0.60	315.50	Downwards	ni	ni
30-Jul-97	317.28	-0.27	317.07	Upwards	315.43	-0.03	315.45	Downwards	ni	ni
15-Sep-97	317.18	-0.17	317.00	Upwards	315.19	0.21	nm	nm	ni	ni
15-Oct-97	317.08	-0.08	nm	nm	315.04	0.36	nm	nm	ni	ni
17-Nov-97	317.02	-0.01	nm	nm	315.00	0.40	nm	nm	ni	ni
17-Dec-97	316.98	0.03	nm	nm	314.89	0.51	nm	nm	ni	ni
21-Jan-98	frozen	frozen	nm	nm	314.70	0.70	nm	nm	ni	ni
10-Jun-98	317.26	-0.26	317.07	Upwards	315.18	0.22	nm	nm	ni	ni
23-Oct-98	316.60	0.40	dry	nm	dry @ 313.50	1.90	nm	nm	ni	ni
24-Dec-98	316.45	0.55	dry	nm	dry @ 313.50	1.90	nm	nm	ni	ni
6-Apr-99	317.11	-0.11	dry	nm	314.79	0.61	dry	nm	316.85	2.15
18-Jun-99	316.76	0.24	dry	nm	314.13	1.27	dry	nm	316.53	2.47
22-Sep-99	316.16	0.84	dry	nm	dry @ 313.50	1.90	dry	nm	316.44	2.56
19-Nov-99	316.31	0.69	dry	nm	dry @ 313.50	1.90	dry	nm	316.45	2.55
5-Apr-00	316.82	0.19	dry	nm	dry @ 313.50	1.90	dry	nm	316.80	2.20
16-Jun-00	317.24	-0.23	317.02	Upwards	dry @ 313.50	1.90	dry	nm	316.94	2.07
19-Sep-00	317.11	-0.11	dry	nm	314.65	0.75	dry	nm	316.59	2.42
7-Dec-00	316.86	0.14	dry	nm	314.24	1.16	dry	nm	316.50	2.50
19-Mar-01	317.02	-0.02	dry	nm	315.12	0.28	dry	nm	316.90	2.11
14-Jun-01	317.22	-0.21	dry	nm	nm	nm	dry	nm	316.85	2.15
1-Oct-01	nm	nm	dry	nm	313.71	1.69	dry	nm	316.45	2.55
15-Dec-01	317.08	-0.08	dry	nm	314.48	0.92	dry	nm	316.84	2.17
1-Apr-02	316.96	0.04	dry	nm	315.16	0.24	dry	nm	316.90	2.11
4-Jul-02	317.27	-0.26	317.06	Upwards	nm	nm	dry	nm	316.86	2.14
30-Sep-02	316.94	0.06	dry	nm	314.12	1.28	dry	nm	316.46	2.55
10-Dec-02	316.74	0.26	dry	nm	313.87	1.53	dry	nm	316.49	2.52
8-Apr-03	317.00	0.00	frozen @ 317.16	nm	315.03	0.37	dry	nm	316.91	2.09
15-Jul-03	317.03	-0.03	dry	nm	314.90	0.50	dry	nm	316.69	2.31
20-Oct-03	316.94	0.06	dry	nm	314.33	1.07	dry	nm	316.74	2.26
21-Dec-03	317.04	-0.04	dry	nm	315.11	0.29	dry	nm	316.93	2.07
24-Mar-04	317.05	-0.05	dry	nm	315.43	-0.03	snow @ 315.82	nm	317.00	2.00
3-Aug-04	317.25	-0.25	dry	nm	315.41	-0.01	315.40	Upwards	316.77	2.24
8-Oct-04	316.90	0.10	dry	nm	314.77	0.63	dry	nm	316.45	2.55
13-Dec-04	316.98	0.02	dry	nm	314.83	0.57	dry	nm	316.82	2.19
5-Apr-05	317.09	-0.09	317.08	Upwards	315.48	-0.08	315.48	No gradient	317.13	1.87
15-Jun-05	317.20	-0.20	317.07	Upwards	315.28	0.12	dry	nm	316.75	2.25
17-Oct-05	316.92	0.09	dry	nm	314.38	1.02	dry	nm	316.67	2.34
15-Dec-05	317.17	-0.17	dry	nm	314.84	0.56	dry	nm	316.85	2.15
31-Mar-06	nm	nm	nm	nm	nm	nm	nm	nm	316.97	2.03
6-Apr-06	317.35	-0.35	317.30	Upwards	315.69	-0.29	315.69	No gradient	nm	nm
7-Jul-06	nm	nm	nm	nm	315.21	0.19	dry	nm	316.60	2.40
13-Oct-06	317.18	-0.18	dry	nm	315.13	0.27	dry	nm	316.88	2.12
20-Dec-06	frozen @ 317.36	-0.36	nm	nm	frozen @ 315.63	-0.23	nm	nm	316.93	2.08
15-Mar-07	317.24	-0.24	dry	nm	315.75	-0.35	dry	nm	317.15	1.85
23-Jul-07	316.79	0.21	dry	nm	315.65	-0.25	dry	nm	316.44	2.56
29-Oct-07	317.11	-0.10	dry	nm	dry @ 313.50	1.90	dry	nm	dry @ 316.40	2.60
14-Dec-07	316.97	0.03	nm	nm	dry @ 313.50	1.90	nm	nm	316.46	2.55
27-Mar-08	frozen @ 317.35	-0.35	frozen @ 317.36	nm	frozen @ 315.65	-0.25	snow @ 316.10	nm	316.97	2.03
26-Jun-08	317.67	-0.67	317.47	Upwards	315.59	-0.19	315.57	Upwards	316.80	2.20
6-Oct-08	317.64	-0.64	317.37	Upwards	315.48	-0.08	315.48	No gradient	316.83	2.17
7-Dec-08	frozen	frozen	frozen	nm	frozen	frozen	frozen	nm	316.93	2.07
27-Mar-09	**frozen**	**frozen**	**frozen**	**nm**	**316.06**	**-0.66**	**316.06**	**No gradient**	**317.05**	**1.96**
22-Jul-09	**317.77**	**-0.76**	**317.67**	**Upwards**	**315.79**	**-0.39**	**315.79**	**No gradient**	**316.92**	**2.08**
7-Oct-09	**317.81**	**-0.81**	**317.29**	**Upwards**	**315.43**	**-0.03**	**315.40**	**Upwards**	**316.73**	**2.27**
8-Jan-10	**317.06**	**-0.06**	**frozen**	**nm**	**315.14**	**0.26**	**frozen**	**nm**	**316.84**	**2.16**
1997 to 2008										
Maximum	317.67	-0.67	-	-	315.75	-0.35	-	-	317.15	1.85
Minimum	316.16	0.84	-	-	313.50	1.90	-	-	316.40	2.60

Notes:

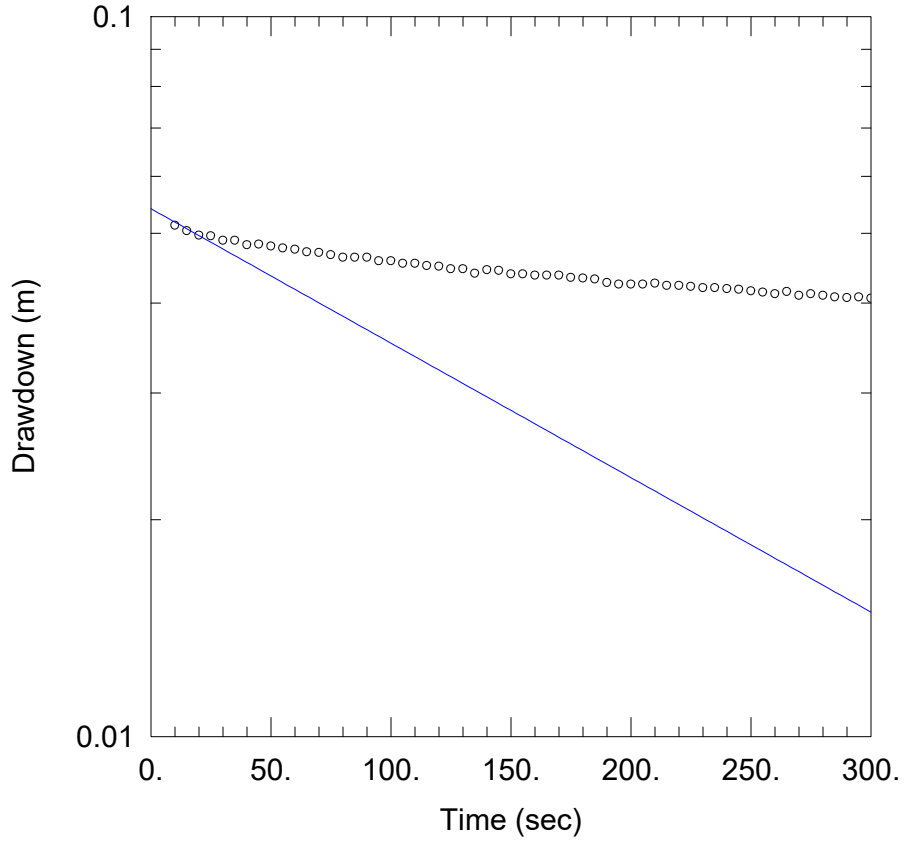
Exceeds historical maximum groundwater elevation or groundwater level fluctuation recorded at this location

Falls below historical minimum groundwater elevation recorded at this location

(1) = Negative value indicates that water level in piezometer is above ground surface
mAMSL = meters above mean sea level
mBGS = meters below ground surface
nm = not measured
ni = not installed
na = not applicable, piezometer not installed in surface water body
dry = water level was not observed within piezometer pipe or at ground surface

Appendix D

Single Well Response Test



FALLING HEAD 1

Data Set: C:\...\MW1-20-Falling1.aqt
Date: 12/15/20 Time: 10:54:21

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW1-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0001332 cm/sec
y0 = 0.05409 m

AQUIFER DATA

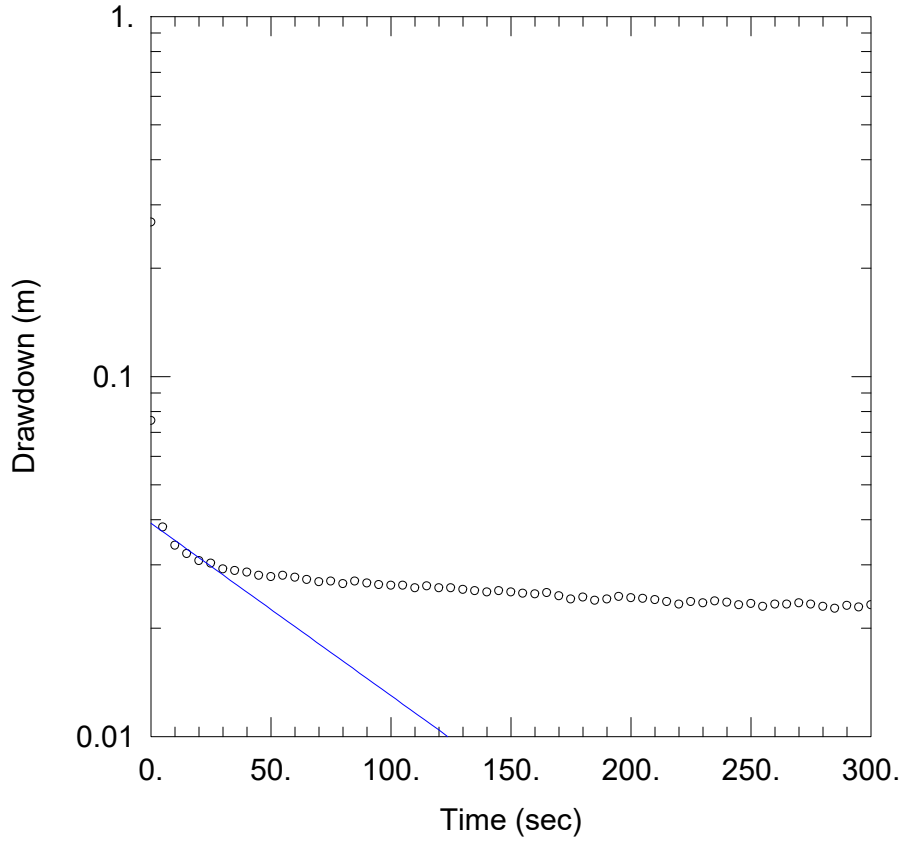
Saturated Thickness: 2.92 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW1-20)

Initial Displacement: 0.3432 m
Total Well Penetration Depth: 3.05 m
Casing Radius: 0.0254 m

Static Water Column Height: 2.92 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



RISING HEAD 1

Data Set: C:\...\MW1-20-Rising1.aqt
Date: 12/15/20 Time: 10:50:02

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW1-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0003417 cm/sec
y0 = 0.03914 m

AQUIFER DATA

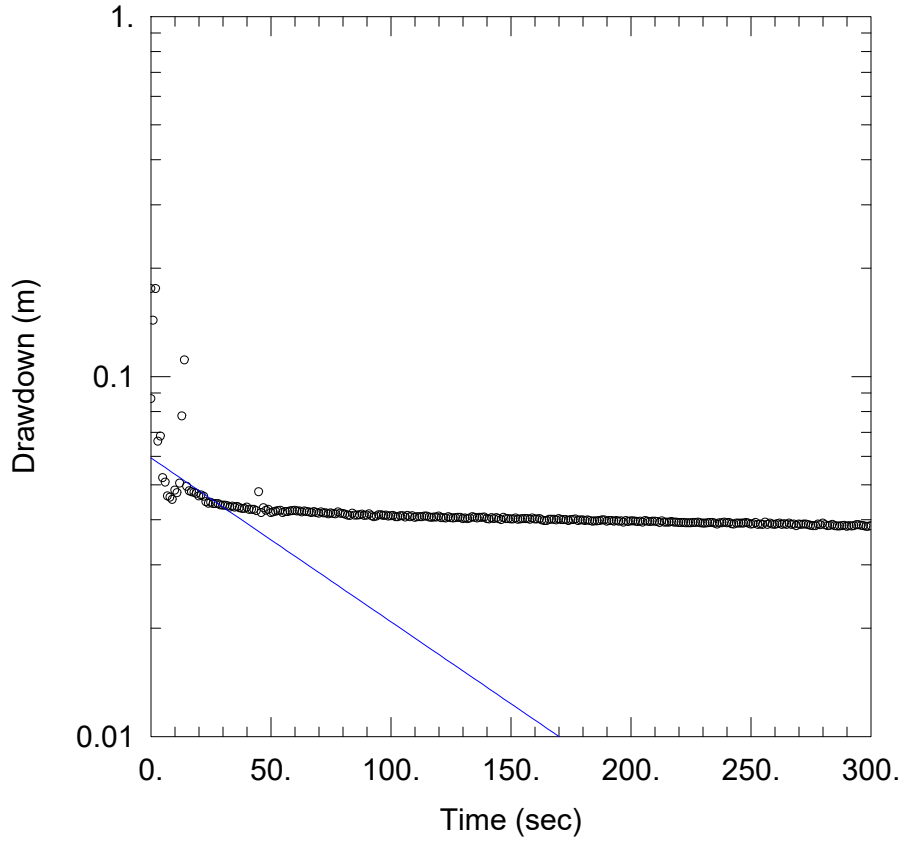
Saturated Thickness: 2.92 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW1-20)

Initial Displacement: 0.2683 m
Total Well Penetration Depth: 3.05 m
Casing Radius: 0.0254 m

Static Water Column Height: 2.92 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



RISING HEAD 2

Data Set: C:\...\MW1-20-Rising2.aqt
Date: 12/15/20 Time: 10:51:25

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW1-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0003247 cm/sec
y0 = 0.05943 m

AQUIFER DATA

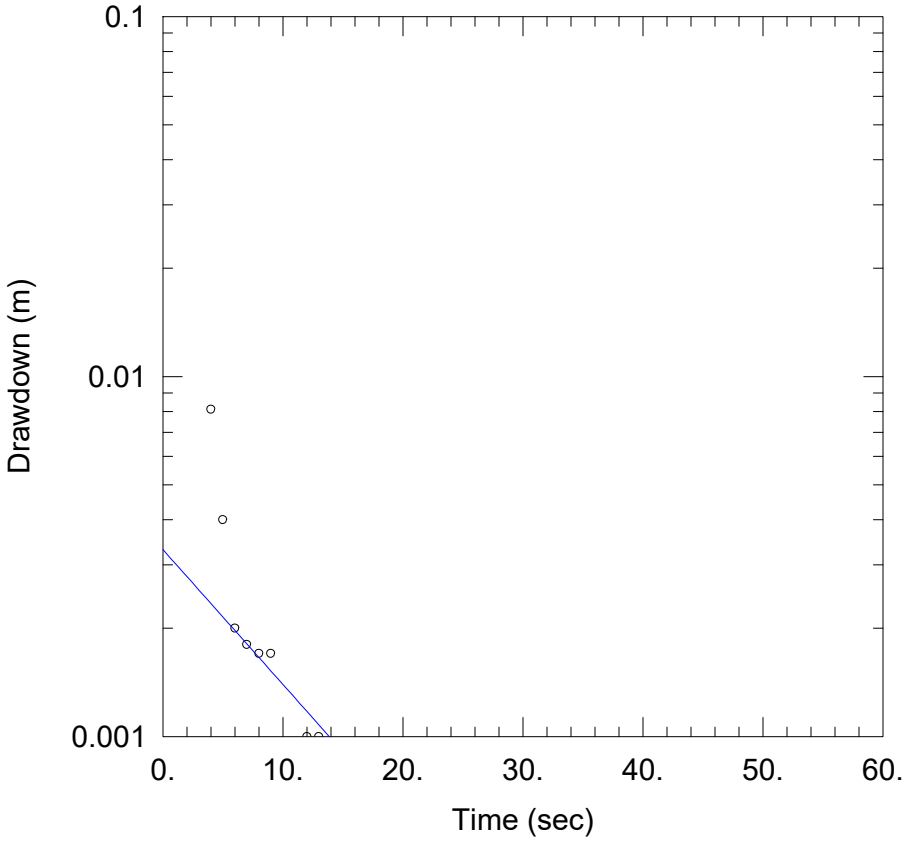
Saturated Thickness: 2.92 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW1-20)

Initial Displacement: 0.1754 m
Total Well Penetration Depth: 3.05 m
Casing Radius: 0.0254 m

Static Water Column Height: 2.92 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



FALLING HEAD 1

Data Set: C:\...\MW2-20-Falling1.aqt
Date: 12/15/20 Time: 10:40:33

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW2-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.003037 cm/sec
y0 = 0.003305 m

AQUIFER DATA

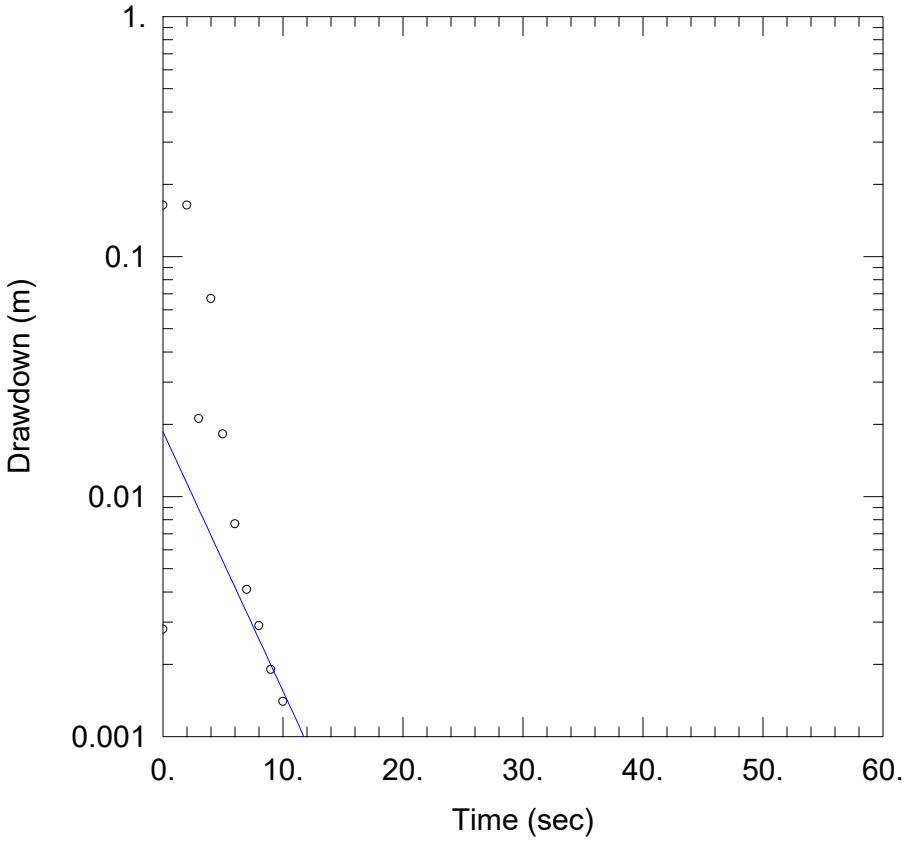
Saturated Thickness: 4.42 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW2-20)

Initial Displacement: 0.2903 m
Total Well Penetration Depth: 4.42 m
Casing Radius: 0.0254 m

Static Water Column Height: 4.42 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



RISING HEAD 1

Data Set: C:\...\MW2-20-Rising1.aqt
Date: 12/15/20 Time: 10:46:21

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW2-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.008762 cm/sec
y0 = 0.01864 m

AQUIFER DATA

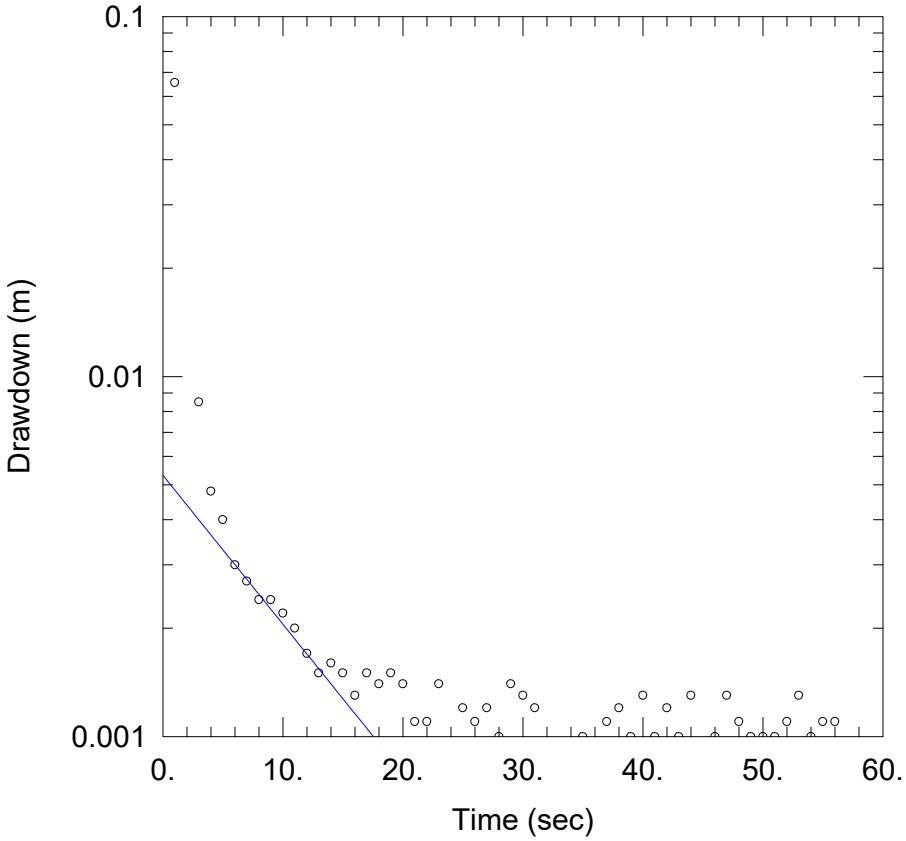
Saturated Thickness: 4.42 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW2-20)

Initial Displacement: 0.1637 m
Total Well Penetration Depth: 4.42 m
Casing Radius: 0.0254 m

Static Water Column Height: 4.42 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



FALLING HEAD 2

Data Set: C:\...\MW2-20-Falling2.aqt
Date: 12/15/20 Time: 10:44:11

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW2-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.003352 cm/sec
y0 = 0.005314 m

AQUIFER DATA

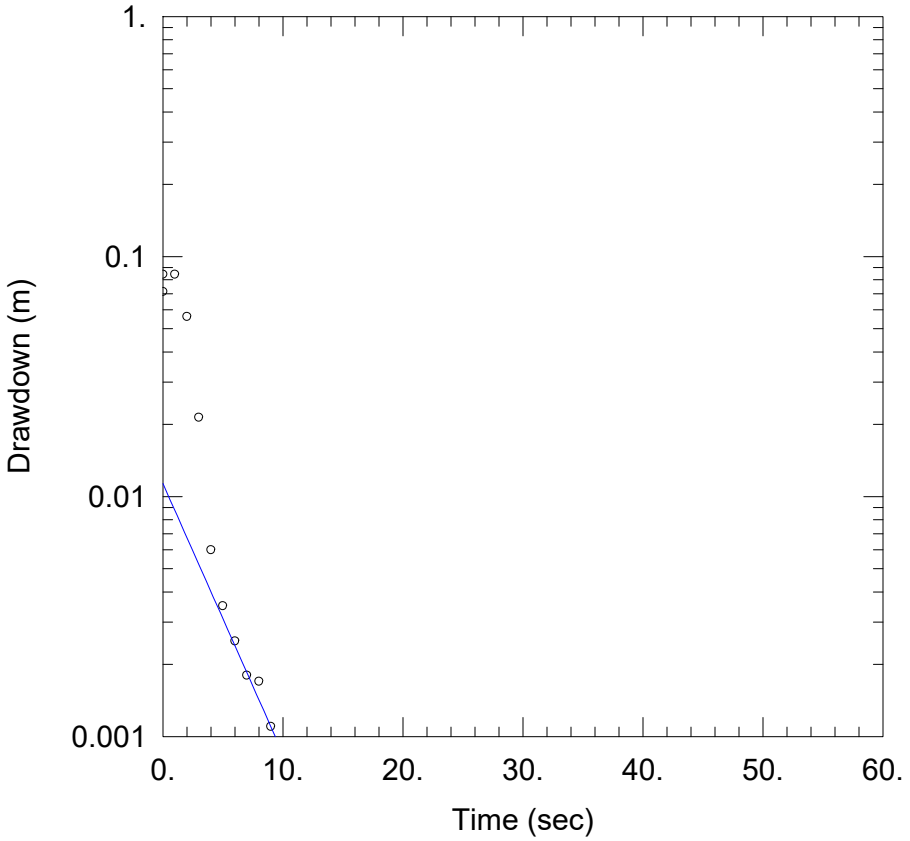
Saturated Thickness: 4.42 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW2-20)

Initial Displacement: 0.5797 m
Total Well Penetration Depth: 4.42 m
Casing Radius: 0.0254 m

Static Water Column Height: 4.42 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



RISING HEAD 2

Data Set: C:\...\MW2-20-Rising2.aqt
Date: 12/15/20 Time: 10:47:38

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW2-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.00913 cm/sec
y0 = 0.01132 m

AQUIFER DATA

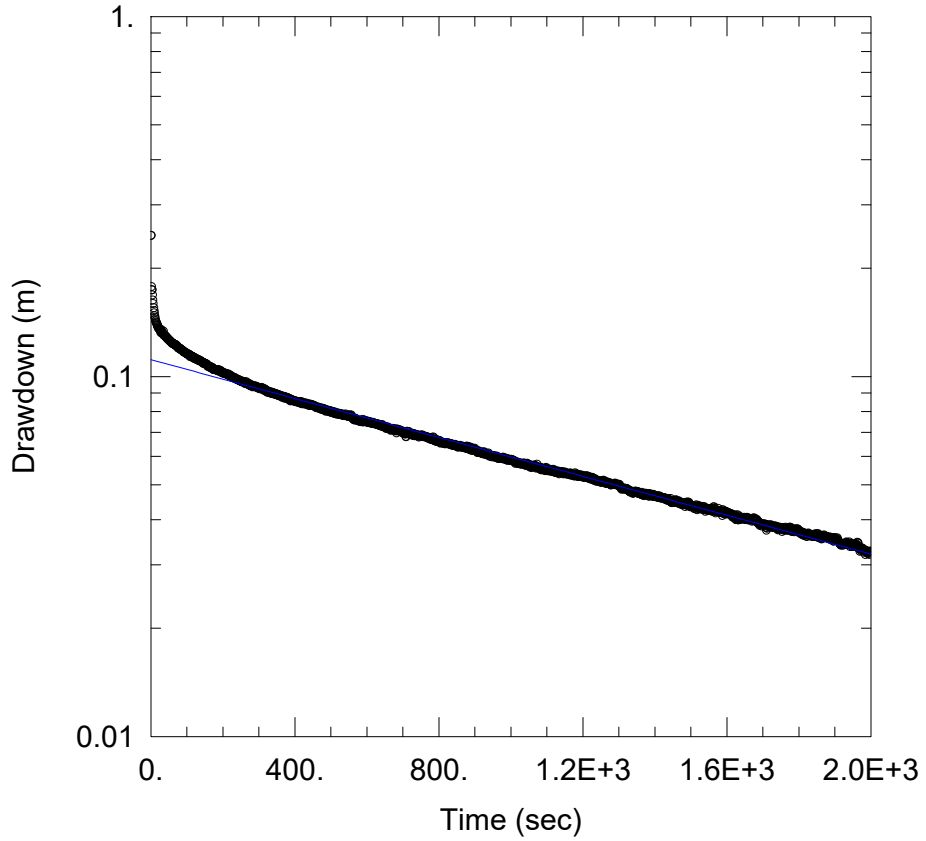
Saturated Thickness: 4.42 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW2-20)

Initial Displacement: 0.0843 m
Total Well Penetration Depth: 4.42 m
Casing Radius: 0.0254 m

Static Water Column Height: 4.42 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



FALLING HEAD 1

Data Set: C:\...\MW3-20-Falling1.aqt
Date: 12/15/20 Time: 10:29:03

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW3-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

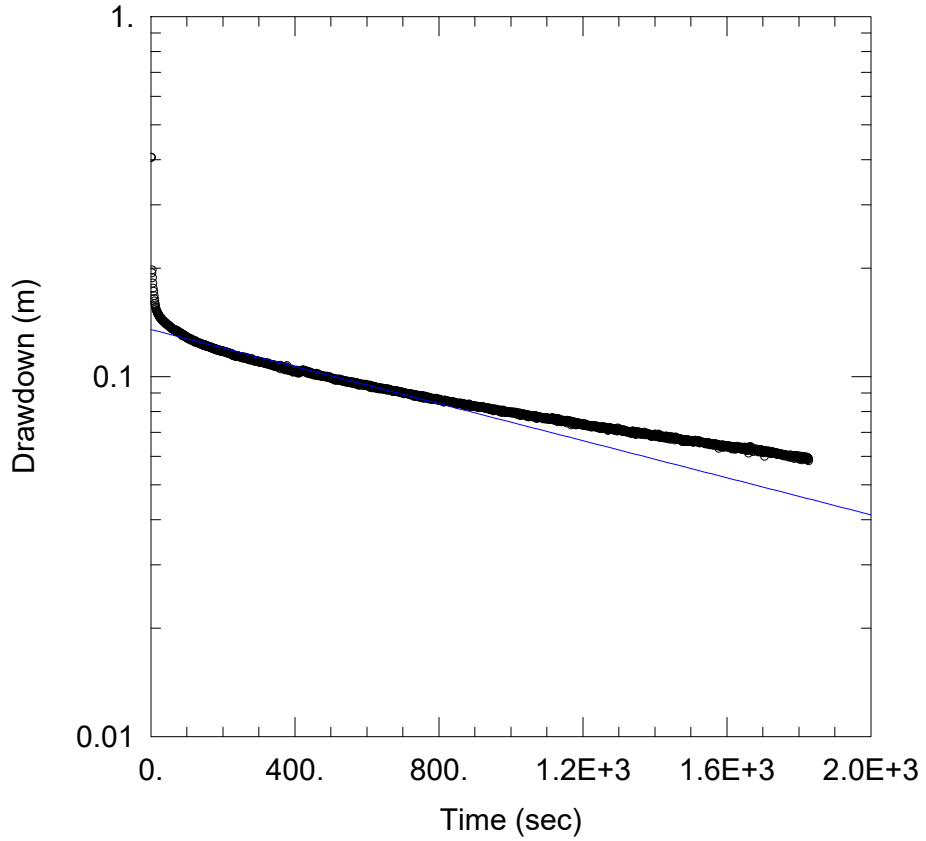
K = 2.484E-5 cm/sec
y0 = 0.1113 m

AQUIFER DATA

Saturated Thickness: 9.2 m
Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW3-20)

Initial Displacement: 0.2464 m
Total Well Penetration Depth: 9.2 m
Casing Radius: 0.0254 m
Static Water Column Height: 9.2 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



RISING HEAD 1

Data Set: C:\...\MW3-20-Rising1.aqt
Date: 12/15/20 Time: 10:29:52

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW3-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 2.368E-5 cm/sec
y0 = 0.1351 m

AQUIFER DATA

Saturated Thickness: 9.2 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW3-20)

Initial Displacement: 0.4056 m
Total Well Penetration Depth: 9.2 m
Casing Radius: 0.0254 m

Static Water Column Height: 9.2 m
Screen Length: 3.05 m
Well Radius: 0.0762 m

Appendix E

Water Well Inventory Report

September 18, 2020 Reference No. 11210029

Mr. Frank Ertl
Badger Daylighting and Hydrovac Services
6678 Wellington Road 34
Cambridge, Ontario
N3C 2V4

Dear Mr. Ertl:

Re: Water Well Record Search Update
Badger Daylighting & Hydrovac Services
6678 Wellington Road 34, Cambridge, Ontario (Site or Facility)

1. Introduction

GHD Limited (GHD) has prepared this letter to provide an update to our August 20, 2020 water well survey completed for the above-referenced Site. The original survey involved the identification of on-site wells and off-site wells within 200 metres (m) of the Site property boundary based on the Ontario Ministry of the Environment, Conservation, and Parks (MECP's) on-line Water Well Record Database (Water Well Database)[1]. The well locations provided in the Water Well Database are commonly only estimated by MECP in their mapping and need to be verified by a site inspection. GHD conducted a Site inspection with Badger on August 27, 2020. This letter provides the updated well survey and updated recommendations based on the Site inspection and further review of the records.

2. Water Well Search

GHD completed a search of the Water Well Database in order to identify water well records in the database for the on-Site wells and wells located within a 200 m radius of the Site. The search identified 7 on-site well records and 10 off-site (within 200 m of the Property boundary) as documented in the August 20, 2020 letter.

On-Site Wells

During the Site inspection only 4 of the 7 on-site wells identified in the Water Well Database were determined to actually be located on the Property. The locations of the 4 on-site wells are shown on the updated Water Well Search provided as Figure 1. Tabulations of the available well information, including record number, type of well recorded or estimated northing and easting, installation/refurbishment dates, current status, type of well, total depth, and geology are provided in Table 1 (4 on-site wells) and Table 2 (13 off-site wells).

[1] https://www.ontario.ca/environment-and-energy/map-well-records

GHD also inspected 3 adjacent residential properties for wells without entering the properties. Based on the well log details and inspections it appears that 3 of 7 wells previously reported as on-site wells are most likely located on 3 residential properties adjacent to the Site. GHD also did not access other off-site properties to attempt to verify the information provide in the Water Well Database for the other 10 off-site wells identified in the August 20, 2020 letter. The updated information and description for each of the 4 on-site and 13 off-site wells located within 200 m of the Site are provided below.

2.1 On-Site Water Supply (Domestic/House) Well 6702342

This domestic well is located on the southwest corner of the Property and was installed in 1967 has a 5 inch diameter well. The well log indicates that the well was installed to a total depth of 28 m and was an open well (no slotted screen) in bedrock.

GHD believes that this well is the original well located in the well house next to Buck Off Stables. Further information provided in a newer well record from 2009 (7143739) indicates that a 5 inch well was abandoned. Well 6702342 is the only on-site well with a 5-inch diameter.

GHD believes that the original 1967 domestic well was abandoned in 2009 and is no longer present.

2.2 Water Supply (Livestock) Well 6705884

This livestock well was installed in 1975 as a 6-inch diameter well. The well log indicates that the well was installed to a total depth of 29.5m and was an open well (no slotted screen) in limestone.

The well is described as located in the center of the Property with "long lane, backs into farm building, and name on mailbox". Further information provided in newer well records from 2009 (7143739 and A0871817 indicates that a 6 inch well was extended up 2.4 m. Well 6705884 is the only on-site well with a 6-inch diameter.

GHD believes that this livestock well is located in the well house next to Buck Off Stables and is currently in use.

2.3 Water Supply (Domestic Well) 6706720

This domestic well was installed in 1978 and appears to be located on-site in the field north of the Badger operations. The well log indicates that the well was installed in 1978 to a total depth of 33.8 m and was an open well (no slotted screen) in gravel.

The sketch on the well log suggests that the MECP map is not accurate as the northing reference point provided on the well log is 4810980 which locates the well at the well house to west of the Badger operations.

GHD believes that this domestic well is located in the well house to the west of Badger operations and is currently used for Badger's operations.

2.4 Water Supply (Domestic) Well 6708332

This domestic well was installed in 1985 and appears to be located in the southeast corner of the Property. The well log indicates that the well was constructed to a total depth of 28 m and was an open well (no slotted screen) in limestone.

The well log says that the well was constructed for a new house, 200m off the road. Although most of the address is redacted, the information suggests that this well is located on concession 3, lot 7, whereas the Badger property is located on parcel 8.

GHD believes that this well is not located on the Property but is located on a separate property west of the Site and adjacent to Country Road 34.

2.5 Water Supply (Domestic Well) 6710346

This well domestic well was installed in 1990 and appears to be located at the north end of Property. The well log indicate that the well was constructed to a depth of 42.6m and was an open well (no slotted screen) in limestone.

Well log information also indicates that this well was constructed for a new house. Although most of the address is redacted, the information suggests that this well is located south of the Site adjacent to Wellington Road 34.

GHD believes that this domestic well is located on a separate residential property southwest of the Site at 6668 County Road 34.

2.6 Water Supply (Domestic Well) 6714539

This domestic well was installed in 2003 and appears to be located at the north end of Property. The well log indicates that this well was constructed to a depth of 28m and was an open well (no slotted screen) in packed gravel.

However, the well log includes an exact address and provides the distance between Wellington Road 34, to the well and to the dwelling.

GHD believes that this domestic well is located on a separate residential property southwest of the Site at 6670 County Road 34.

2.7 On-Site Well Summary

Based on the above information there are currently two active water supply wells on the property. Livestock well 6705884 which is located in the well house next to Buck Off Stables and domestic well 6706720 is located in the Badger well house.

2.8 Additional (Monitoring) Well

During the Site investigation, it also was determined that there also is a hydrogeological monitoring well located east of the main Badger building that is not included in the Water Well Database. The well has a stick up steel casing and a lock but it was not locked at the time of the inspection. It also has a label of BH—214 inside the well lid but no other identification. Well sampling tubing was present in the well at time of inspection. GHD's well depth measurement indicated that the total depth from top of casing was 10.64 m.

2.9 Off-Site Wells Located Within 200 m of Property Line

The 10 off-site wells located within 200 m of the Property boundary were reported in GHD's August 20, 2020 letter and are also located (according to the Water Well Database) as shown on Figure 1 and the well installation details are provided in Table 2.

2.10 Conclusions and Recommendations

Based on the water well record search, onsite investigation and conversations with Badger, the locations and other information for the on and off-site wells was corrected, as shown on Figure 1 and provided in Tables 1 and 2. GHD verified that there are 2 water supply wells on site that are in good working order. Badger has collected groundwater samples from the 2 wells three times each during July and August 2020. Chemical analyses have been completed at an accredited environmental analytical laboratory. The chemical analyses have been reviewed by GHD and reported to Badger (under separate cover). The analyses indicated that all sample results met MECP O. Reg. 153/04 Table 2 Standards [2].

GHD recommends that the monitoring well be developed and sampled for chemical analysis at least once to complete the evaluation of Site groundwater quality based on existing wells.

Please contact the undersigned if you have any questions (Telephone: 519-340-4222 or at Email: fred.taylor@ghd.com).

Yours truly,

GHD

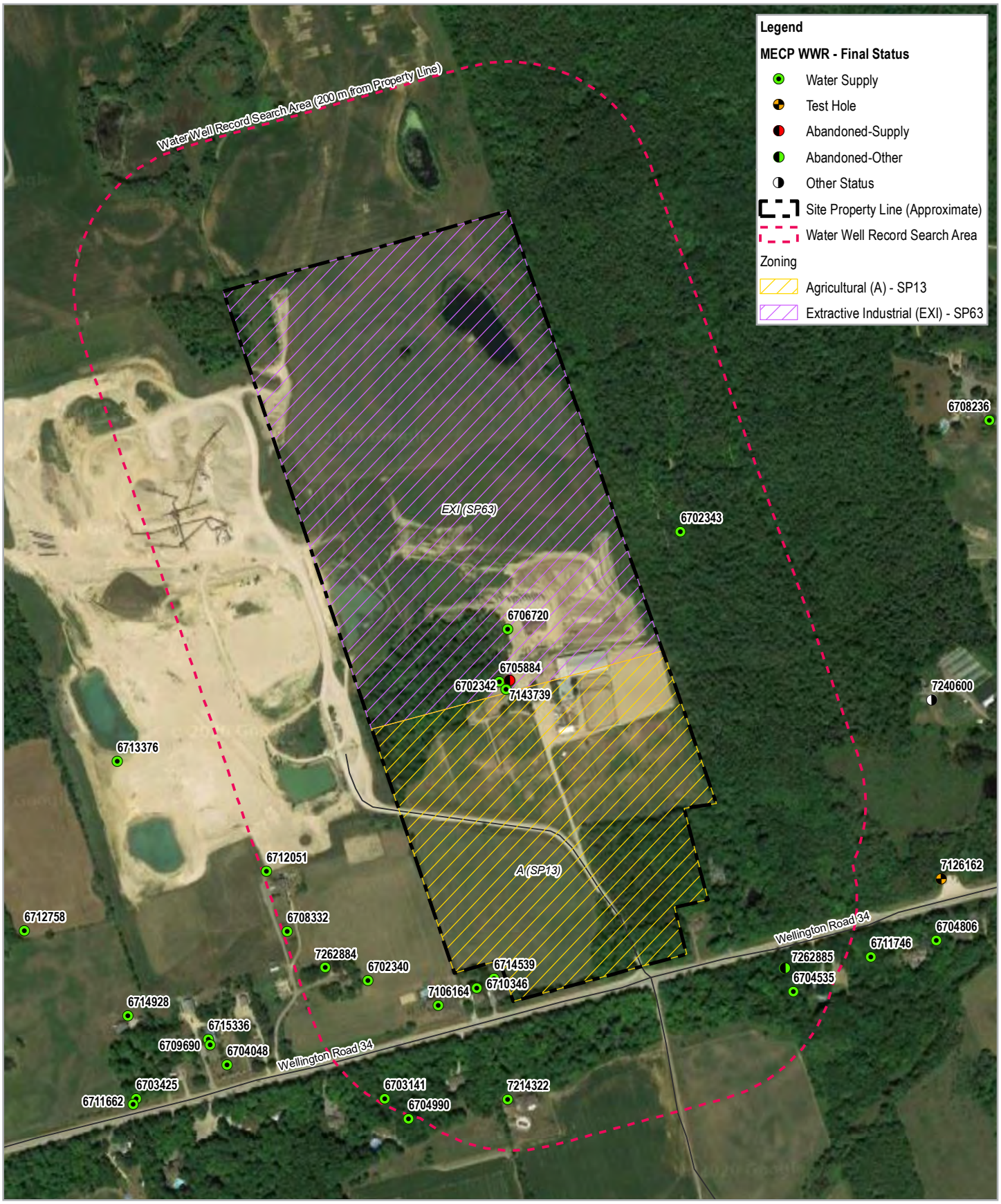
[redacted]

Fred K. Taylor, P. Eng.

FT/cb/

cc: Amelia Soutar, GHD

Encl.



Paper Size ANSI A

0 50 100 150 200

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983 CSRS
Grid: NAD 1983 CSRS UTM Zone 17N

N

GHD

BADGER CONESTOGA INC.
6678 WELLINGTON ROAD 34
CAMBRIDGE, ONTARIO

Project No. **11210029**
Revision No. **-**
Date **Sep 17, 2020**

WATER WELL RECORD SEARCH

FIGURE 1

Data source: WWIS, 2020. Ontario Ministry of the Environment (Accessed August, 2020); Imagery Google 2020. Capture date: 7/Jul/2018

Table 1

Well ID	Well Tag # (since 2003)	Depth (m)	Geology	Type of Well	Location	Installed	Refurbishment	Potable	Abandoned	Current Status
On Site Wells										
6702342	NA	29.3	Stones, sand, clay, bedrock	water supply domestic (house)	N/A	1967	N/A	Yes	No	Abandoned
6705884	NA	29.5	Clay, broken limestone, limestone	water supply (livestock)	Stable well house	1975	Yes	Yes	No	In use, well extended based on well record (7143739)
6706720	NA	33.8	Sand, gravel	water supply (domestic)	Badger well house	1978	N/A	Yes	No	In use
7143739	A087181	NA	N/A	Well record for abandonment and extension	N/A	2009	Yes	Yes	**Yes**	Well record of abandonement of 2 wells (dug well and 5 inch) and a well extention.
No Record	BH-214		Unknown	Monitoring		Unknown	Unknown	No	No	

Notes:

(1) Comments found on: https://www.ontario.ca/environment-and-energy/map-well-records
NA - not available

Table 2

Well ID	Well Tag # (since 2003)	Depth (m)	Geology	Type of Well	Northing and Easting	Installed	Abandoned	Current Status
Off Site Wells								
6708332	NA	28.0	Gravel, sand, slay, limestone	water supply domestic	N/A	1985	no	Unknown
6710346	NA	42.6	Clay, sand, limestone	water supply domestic	N/A	1990	no	Unknown
6714539	NA	28.0	Top soil, clay, gravel	water supply domestic	N/A	2003	no	Unknown
6702340	NA	26.8	Gravel, clay, sand	water supply domestic	N/A	1950	N/A	Unknown
6702343	NA	38.4	Sand, gravel, rock	water supply domestic	N/A	1962	N/A	Unknown
6703141	NA	59.1	Sand, gravel, rock	water supply domestic	N/A	1968	N/A	Unknown
6704535	NA	50.9	Clay, gravel, rock	water supply domestic	N/A	1973	N/A	Unknown
6704990	NA	32.6	Clay, sand, gravel	water supply domestic	N/A	1974	N/A	Unknown
6712051	NA	33.8	Sand, clay, gravel	water supply domestic	N/A	1996	N/A	Unknown
7106164	A072033	31.1	Clay, sand, gravel, limestone	water supply domestic	N/A	2008	N/A	Unknown
7214322	A137700	41.8	Sand, gravel, limestone	water supply domestic	Easting: 560279 Northing: 4810368	2013	N/A	Unknown
7262884	A191498	38.1	Sand, Limestone	water supply domestic	Easting: 560039 Northing: 4810550	2016	no	Unknown
7262885	A087181	32.9	N/A	water supply domestic	Easting: 560654 Northing: 4810535	2016	**yes**	Well abandonment

Notes:

(1) Comments found on: https://www.ontario.ca/environment-and-energy/map-well-records
NA - not available

Attachment A

UTM | | Z | | | | | | | | E

| 9 | R | | | | | | | | | N

Elev. | 9 | R | 1 | 0 | 5 | 0 |

Basin | 23 |

273

67 No. 2340

RECEIVED
MAR 28 1950
GEOLOGICAL BRANCH
DEPARTMENT OF MINES

ONTARIO

The Well Drillers Act

Department of Mines, Province of ~~Ontario~~

Water Well Record

[redacted] Con. 3 Lot ..... Pt. Lot ~~8~~ 7 H.T.

[redacted] R.# 2 Hespeler ..... Acres 1

Date Completed March 4th 1950 Cost of Well (not including pump) .....

Pipe and Casing Record	Pumping Test
Casing diameter(s) 4¼"	Date March4th 1950
Length(s) of casing(s) 88 ft.	Developed Capacity 5 G.P.M.
Length of screen	Duration of Test 2 hrs
Type of screen	Pumping Rate 5 G P M
Type of pump	Drawdown 15 ft.
Capacity of pump	Static level of completed well 36 ft
Depth of pump setting	Is well a gravel-wall type? gravel

Water Record

Kind (fresh or mineral) fresh

Quality (hard, soft, contains iron, sulphur etc.) hard

Appearance (clear, cloudy, coloured) clear

For what purpose(s) is the water to be used? house

How far is well from possible source of contamination? none

What is source of contamination? none

Enclose a copy of any mineral analysis that has been made of water

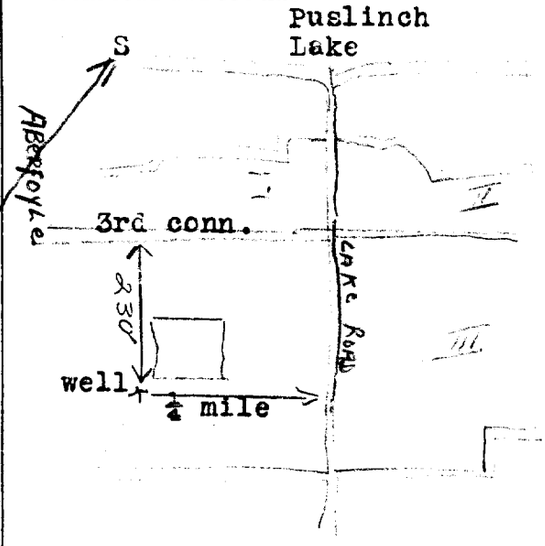
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
88 ft.	hard	52

Well Log

Drift and Bedrock Record	From	To
gravel	0 ft.	5 ft.
clay & boulders	5	16
sandy clay	16	23
coarse gravel	23	28
sandy clay	28	43
Quick sand	43	87
gravel	87	88

Location of Well

In diagram below show distances of well from road and lot line



Situation: Is well on upland, in valley, or on hillside? valley

Drilling Firm J.L.GRAHAM

Address 297 Exhibition St Guelph Ontario. CSS.S8

Recorded by W. H. Collingridge Address 5 Barton St. Guelph

Date March 4th 1950 Licence Number 354

UTM 11 E
5 R N
Elev. 6 R 1050

67 № 2342

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 23

County or District Wellington — Township, Village, Town or City Puslinch

Con. 3 Lot 8 — Date completed 14 (day) May (month) 67 (year)

Owner [redacted] (print in block letters) — Address 4 Honey Crescent R.R #2, Hespeler Guelph

Casing and Screen Record

Inside diameter of casing 6¼

Total length of casing 92

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole 5in

Pumping Test

Static level 33

Test-pumping rate 20 G.P.M.

Pumping level 37

Duration of test pumping 1hr

Water clear or cloudy at end of test clear

Recommended pumping rate 10 G.P.M.

with pump setting of 50 to 70 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Stones and Gravel	0	35	94	fresh
Sandy clay and small stones	35	85		
Sand and Gravel	85	90		
Silty sand	90	92		
Rock	92	96		

For what purpose(s) is the water to be used? Domestic

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm W Packham

Address RR2 Ancaster

Licence Number 2498

Name of Driller or Borer W Packham

Address RR2 Ancaster

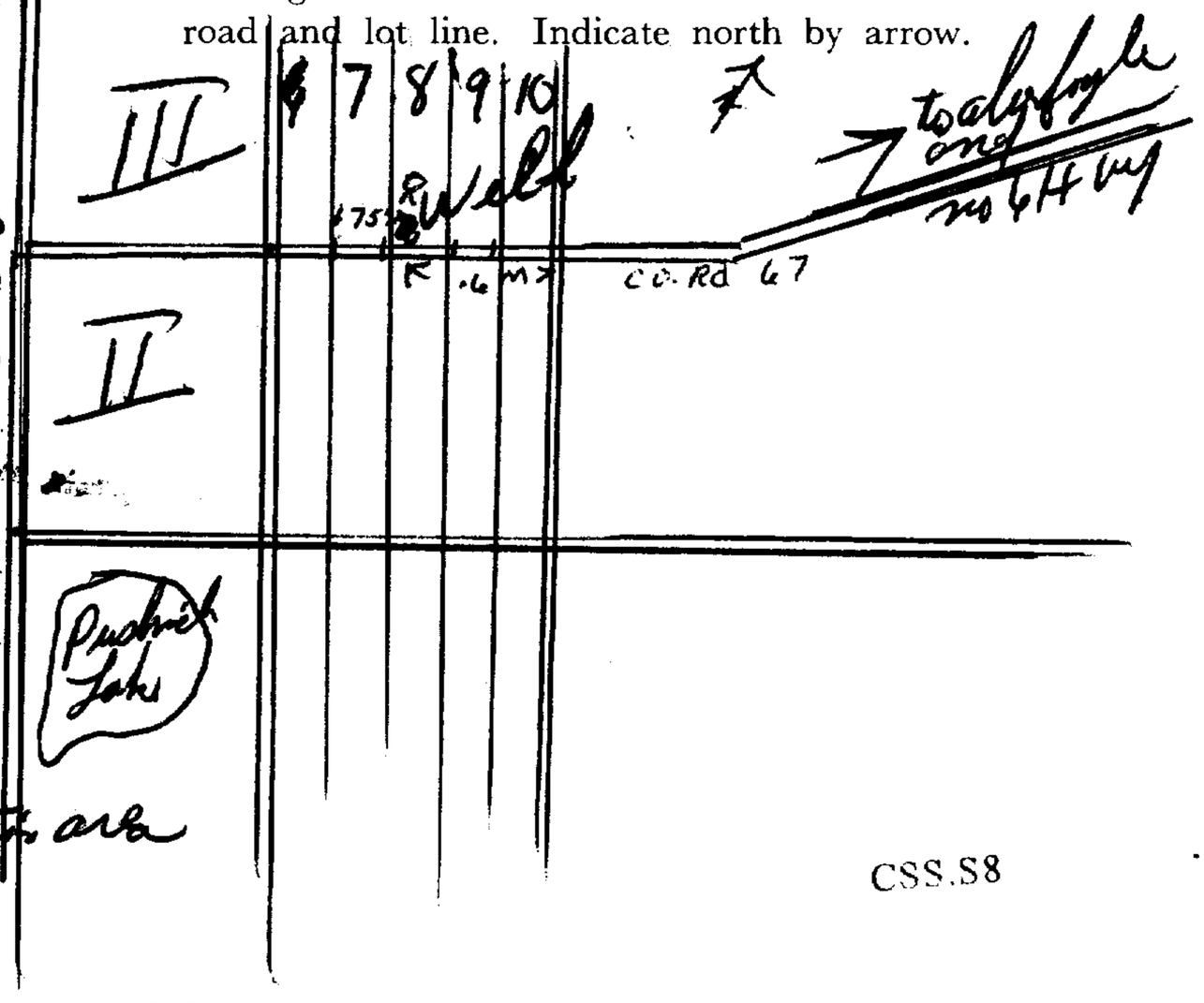
Date May 14/67

[redacted]

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 7 15M-60-4138 125ft N & S Rd 4W side of county reforestation area

OWRC COPY

CSS.S8

(746)

UTM Z E

5 R N

Elev. 5 R 1050

Basin 23

The Ontario Water Resources Commission Act

WATER WELL RECORD

GROUND WATER BRANCH
67 No 2343
MAR 23 1962
ONTARIO WATER RESOURCES COMMISSION

County or District Wellington

Township, Village, Town or City Puslinch

Con. ~~Front of 3rd con.~~ (Well County tree farm) Lot 9

Date completed 12th (day) March (month) 1962 (year)

Owner County of Wellington, (Guelph) (print in block letters)

Address County Clerk Office, Woolwich St Guelph Ont.

Casing and Screen Record

Inside diameter of casing 5 inch

Total length of casing 77 ft

Type of screen none

Length of screen nil

Depth to top of screen nil

Diameter of finished hole 5 inch

Pumping Test

Static level 23 ft

Test-pumping rate 10 G.P.M.

Pumping level 40 ft

Duration of test pumping 3 hrs

Water clear or cloudy at end of test clear

Recommended pumping rate ~~25x~~ 8 G.P.M.

with pump setting of 35 ft feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
dug well	0	22	90'-126'	fresh
~~kindxxfxwater~~ coarse sand gravel	22	54		
fine sand (grey)	54	65		
fine sand, gravel (coarse)	65	78		
light brown rock	78	125		
dark brown rock	125	126		

For what purpose(s) is the water to be used? domestic

Is well on upland, in valley, or on hillside? hillside

Drilling or Boring Firm J L Graham Drilling Contractor

Address 119 Renfield St. Guelph Ont

Licence Number 481

Name of Driller or Borer Robert Graham

Address 210 Waverley Drive Guelph Ont.

Date March 17th 1962.

[redacted]

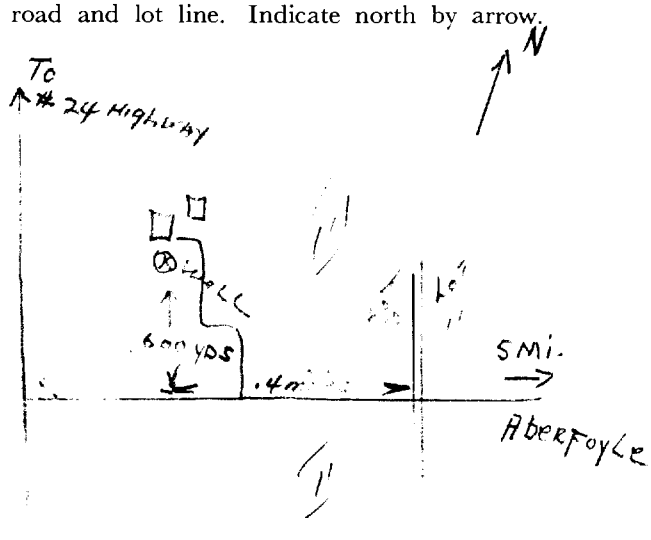
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.S8

17 5 60 1 0 0 Con II Lot 7

5 48 1 0 1 5 0 CODED 6703141

5 7 0 4 5

23 Keystone 50A

40P/6W

7

DIVISION OF WATER RESOURCES
JAN 9 1969
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District: Wellington

Township, Village, Town or City: [redacted]

Con. 2 Lot 7

Date completed: 4th December 1968 (day month year)

[redacted] Address: ~~Guelph~~ Ont. RR # 2 Hespeler

Casing and Screen Record

Inside diameter of casing: 5 inch

Total length of casing: 111 ft

Type of screen: ——

Length of screen: ——

Depth to top of screen: ——

Diameter of finished hole: 5 inch

Pumping Test

Static level: 42 ft

Test-pumping rate: 10 G.P.M.

Pumping level: 60 ft

Duration of test pumping: 1hr. bailer test

Water clear or cloudy at end of test: clear

Recommended pumping rate: 10 G.P.M.

with pump setting of: 60 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
stones and gravel	0	48	180	fresh
clay and gravel	48	90	to	
hard packed sand	90	111	194	
brown rock	111	155		
light grey rock	180	194		

For what purpose(s) is the water to be used? household

Is well on upland, in valley, or on hillside? hillside

Drilling or Boring Firm: Graham Well Drilling

mailing R R 2 Guelph Ont.

Address:

Licence Number: 2855

Name of Driller or Borer: Arthur Titus

Address: 25 Eramosa Rd. Guelph

Date: December 4th 1968

[redacted]

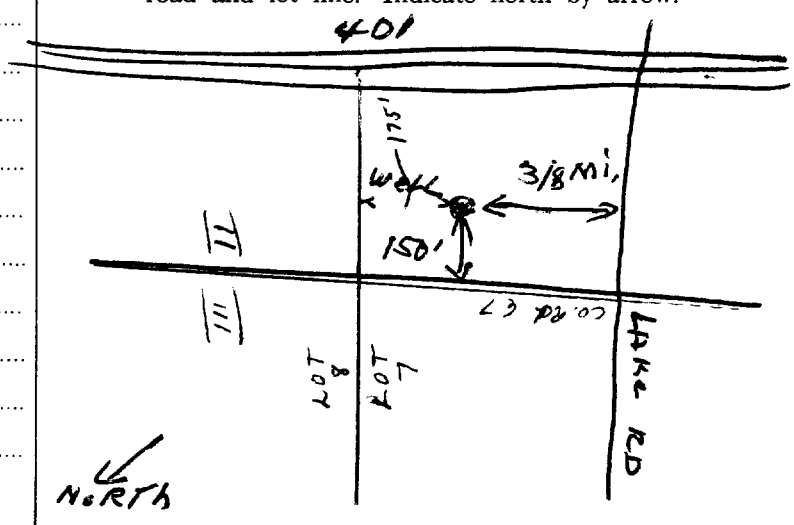
(Signature of Licensed Drilling or Boring Contractor)

Form 7 5M 60-20912

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.S8

The Ontario Water Resources Commission Act

WATER WELL RECORD

40 P/SWI

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
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11 | 6704535 | MUNICIP. 67012 | CON. C/N | 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
WELLINGTON	PUSLINCH	2	009

[redacted] 2 Fairview Dr Preston

DATE COMPLETED: DAY 27 MO 01 YR 73

G 102280 | RC. 4 | ELEVATION 1035 | RC. 5 | BASIN CODE 23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	TO
		well pit		0	5
Brown	Clay &	Boulders.		5	24
		Sandy Clay & boulders		24	82
		Cemented gravel		82	92
		Rock		92	167

31 | 0005 23 | 0024 6051 3 | 0067 6 26

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0160	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	TO
05	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	244	0	93 ~~0893~~
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		93	0167
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	0012 GPM.	01 HOURS 30 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
032 FEET	038 FEET	033 FEET	FEET	032 FEET	FEET

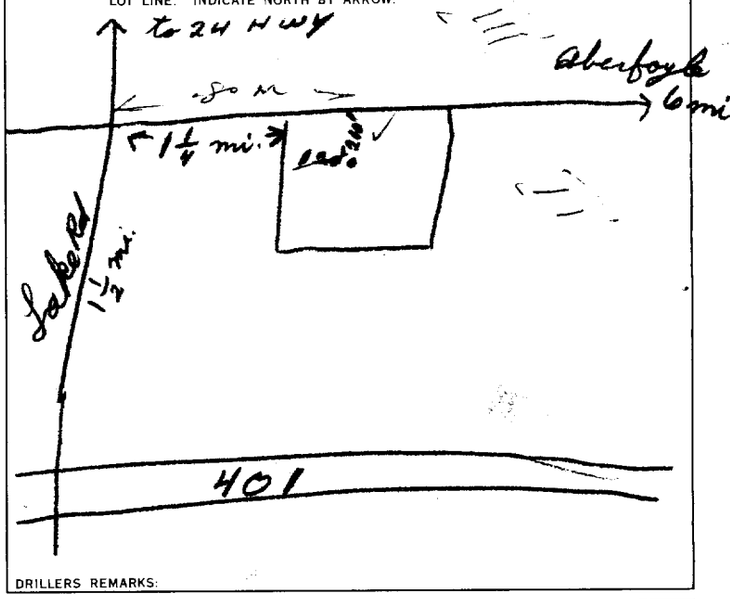
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM.	FEET	1 ☐ CLEAR 2 ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	080 FEET	0012 GPM.

50-53: 002.0 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL (54)
1 ☒ WATER SUPPLY
2 ☐ OBSERVATION WELL
3 ☐ TEST HOLE
4 ☐ RECHARGE WELL
5 ☐ ABANDONED, INSUFFICIENT SUPPLY
6 ☐ ABANDONED, POOR QUALITY
7 ☐ UNFINISHED

WATER USE (55-56) 01
1 ☒ DOMESTIC
2 ☐ STOCK
3 ☐ IRRIGATION
4 ☐ INDUSTRIAL
☐ OTHER
5 ☐ COMMERCIAL
6 ☐ MUNICIPAL
7 ☐ PUBLIC SUPPLY
8 ☐ COOLING OR AIR CONDITIONING
9 ☐ NOT USED

METHOD OF DRILLING (57)
1 ☒ CABLE TOOL
2 ☐ ROTARY (CONVENTIONAL)
3 ☐ ROTARY (REVERSE)
4 ☐ ROTARY (AIR)
5 ☐ AIR PERCUSSION
6 ☐ BORING
7 ☐ DIAMOND
8 ☐ JETTING
9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Paul Weber — LICENCE NUMBER: 5469

ADDRESS: RR 2 Breslau

NAME OF DRILLER OR BORER: L Clayton Shantz — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [redacted] — SUBMISSION DATE: DAY 30 MO 1 YR 73

OFFICE USE ONLY

DATA SOURCE (58): 1 — CONTRACTOR (59-62): 5469 — DATE RECEIVED (63-68): 020273

DATE OF INSPECTION: — INSPECTOR: 3

REMARKS: 005 88

P — WI

OWRC COPY

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

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11 | 6704990 | MUNICIP. 67012 | CON. CON | 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Wellington	Puslinch	conc. 2	007

[redacted] KITCHENER

DATE COMPLETED: DAY 14 MO. 02 YR. 74

1 2	6704990	17	380131	4810122	4	1045	4	23	MAR 20, 1975	50

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	clay	stones		0	40
"	"	gravel		40	60
Dark brown-hardpan,		sand		60	90
" "	"	" coarse gravel		90	100
" "	sand	gravel		100	106
		gravel		106	107
			Total depth 107 ft.		

31 | 0040605/24 | 0060605/11 | 0090614/28 | 0106/14/28/11 | 0106/28/11 | 0107 /11

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0107	☒ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
05	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	.188	0	~~106~~ 0106
05	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☒ OPEN HOLE		106	0107
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
☐ PUMP ☒ BAILER	0010 GPM	01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING ☐ PUMPING ☒ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
040 FEET	048 FEET		040 FEET	FEET	FEET	FEET

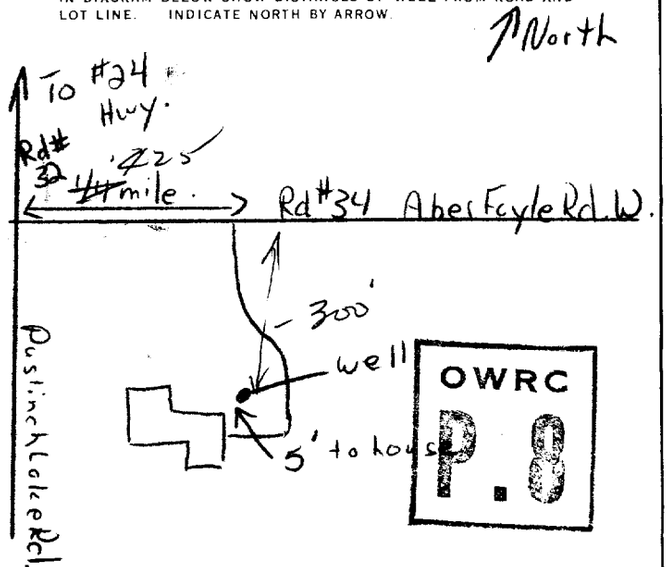
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	☐ CLEAR ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	055 FEET	0010 GPM

50-53 0.01.3 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

OWRC P.8

FINAL STATUS OF WELL	54
	☒ WATER SUPPLY ☐ OBSERVATION WELL ☐ TEST HOLE ☐ RECHARGE WELL ☐ ABANDONED, INSUFFICIENT SUPPLY ☐ ABANDONED, POOR QUALITY ☐ UNFINISHED
WATER USE 55-56	☒ DOMESTIC ☐ STOCK ☐ IRRIGATION ☐ INDUSTRIAL ☐ OTHER ☐ COMMERCIAL ☐ MUNICIPAL ☐ PUBLIC SUPPLY ☐ COOLING OR AIR CONDITIONING ☐ NOT USED
METHOD OF DRILLING 57	☒ CABLE TOOL ☐ ROTARY (CONVENTIONAL) ☐ ROTARY (REVERSE) ☐ ROTARY (AIR) ☐ AIR PERCUSSION ☐ BORING ☐ DIAMOND ☐ JETTING ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: R.H. Gra ham Well Drilling — LICENCE NUMBER: 2336

ADDRESS: 212 Waverley Drive, GUELPH, Ont.

NAME OF DRILLER OR BORER: J. Hawkins — LICENCE NUMBER: 22W71

SIGNATURE OF CONTRACTOR: [redacted] — SUBMISSION DATE: DAY 21 MO. 2 YR. 74

OFFICE USE ONLY

DATA SOURCE 58	CONTRACTOR 59-62	DATE RECEIVED 63-66
1	2336	250274

DATE OF INSPECTION | INSPECTOR

REMARKS: CSS.58

P WI

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MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

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11 | 6705884 | MUNICIP. 67012 | CON. C&N | 0.3

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	BLOCK, TRACT, SURVEY, ETC.	LOT
Wellington	Puslinch	3	008

[redacted] RR2 Hespeler

DATE COMPLETED: DAY 01 MO. 04 YR. 75

6705884	11	980215	4810720	4	1060	4	23	AUG 09, 1977	320

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	Dug Well			0	15
Grey	clay			15	45
Grey	clay Hardpan			45	77
Grey	Broken Limestone			77	79
Grey	Limestone			79	97

31 | 0015 | 23 | 0045205 | 0077205 14 | 0079215 71 | 0097215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0087	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06 6½	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0079 79
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	0007 GPM.	01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
037 FEET	090 FEET	047 FEET	037 FEET	037 FEET	037 FEET

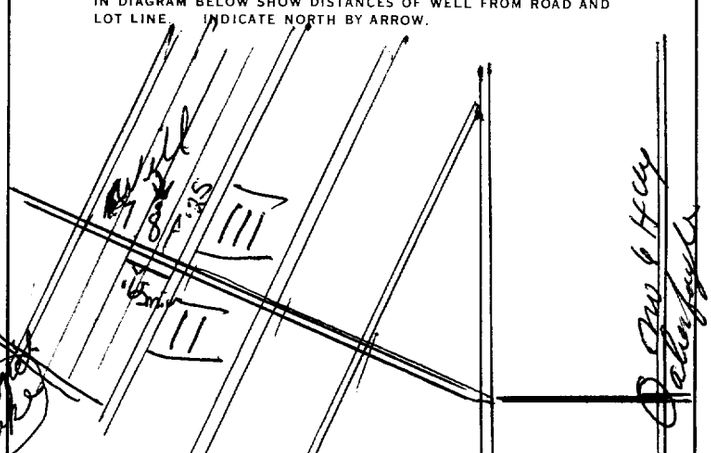
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	080 FEET	0007 GPM

50-53 ___.___ GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 6010

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.


Well
Concrete
Barn
Concrete
Concrete
Concrete

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

40 P/8 2

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11 6706720 MUNICIP. 67012 CON. CON 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	PART
WELL. Co.	PUSLINCH TWP	CON. 2	007

[redacted] 7 GUELPH

DATE COMPLETED: DAY 05 MO. ~~JUNE~~ 06 YR. 78

[redacted] 10980 RC. 4 ELEVATION 1030 RC. 4 BASIN CODE 23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
	GRAVEL	SAND	STONEY	0	15
	SAND			15	100
	GRAVEL		FINE	100	111

31 00 15 1 12 87 0 100 28 0 111 29

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0100 ~~100-110~~	1 ☒ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL 2 ☐ SALTY
	1 ☐ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL 2 ☐ SALTY
	1 ☐ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL 2 ☐ SALTY
	1 ☐ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL 2 ☐ SALTY
	1 ☐ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL 2 ☐ SALTY

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
04	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0111
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

7 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	0010 GPM	03 HOUR 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☐ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
048 FEET	050 FEET	FEET	FEET	FEET	FEET

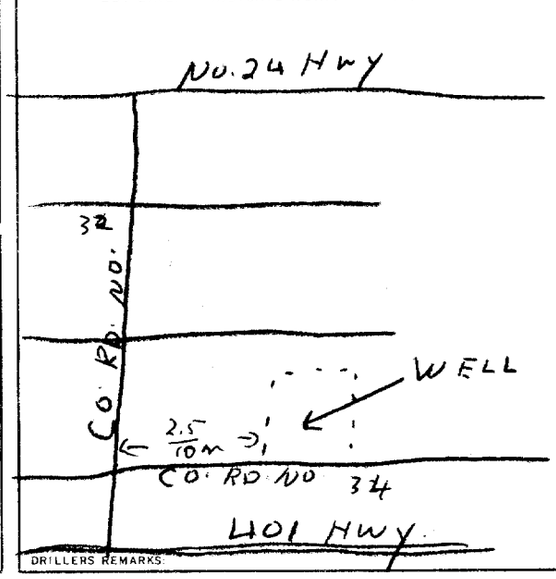
IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: 1 ☐ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: 060 FEET
RECOMMENDED PUMPING RATE: 0008 GPM

GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL 1
1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01
1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 1
1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: HARVEY HILL WELL DRILLING — LICENCE NUMBER: 2564
ADDRESS: RR1 ELORA ONT.
NAME OF DRILLER OR BORER — LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: [redacted] — SUBMISSION DATE: DAY ___ MO. ___ YR. ___

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 2564 — DATE RECEIVED: 070778
DATE OF INSPECTION: July 1979 — INSPECTOR: 39
REMARKS: CSS.S8 — P — WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

6708332

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COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	LOT
[redacted]	Puslinch	III	7
[redacted]	Puslinch		DATE COMPLETED DAY 30 MO Nov. YR. 85

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Brown	gravel	stone clay		0	30
Brown	sand	gravel clay		30	50
Gray	clay	sand gravel		50	80
Gray	limestone			80	92

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
90	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6 1/4	1 ☒ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE	188	0	80
6 1/8	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☒ OPEN HOLE		80	92
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

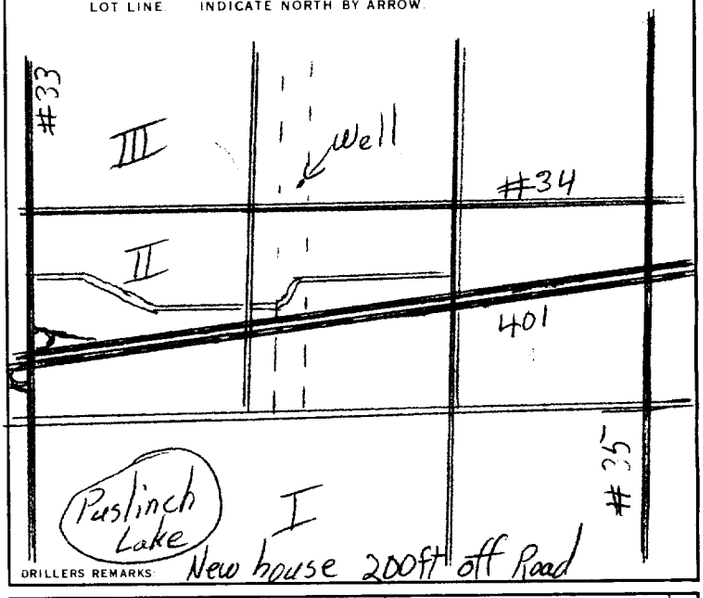
PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP Air 2 ☐ BAILER	9 GPM	1 HOURS 0 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
34 FEET	92 FEET	40 FEET	35 FEET	35 FEET	34 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	92 FEET	1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP	RECOMMENDED PUMP SETTING 85 FEET	RECOMMENDED PUMPING RATE 9 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS: New house 200ft off Road

FINAL STATUS OF WELL	1 ☒ WATER SUPPLY; 2 ☐ OBSERVATION WELL; 3 ☐ TEST HOLE; 4 ☐ RECHARGE WELL; 5 ☐ ABANDONED, INSUFFICIENT SUPPLY; 6 ☐ ABANDONED, POOR QUALITY; 7 ☐ UNFINISHED
WATER USE	1 ☒ DOMESTIC; 2 ☐ STOCK; 3 ☐ IRRIGATION; 4 ☐ INDUSTRIAL; ☐ OTHER; 5 ☐ COMMERCIAL; 6 ☐ MUNICIPAL; 7 ☐ PUBLIC SUPPLY; 8 ☐ COOLING OR AIR CONDITIONING; 9 ☐ NOT USED
METHOD OF DRILLING	1 ☐ CABLE TOOL; 2 ☐ ROTARY (CONVENTIONAL); 3 ☐ ROTARY (REVERSE); 4 ☒ ROTARY (AIR); 5 ☐ AIR PERCUSSION; 6 ☐ BORING; 7 ☐ DIAMOND; 8 ☐ JETTING; 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Packham Well Drilling Inc. — LICENCE NUMBER: 4207
ADDRESS: 1235 Trinity Rd. Ancaster Ont.
NAME OF DRILLER OR BORER: Mervyn Packham — LICENCE NUMBER: 4207
SIGNATURE OF CONTRACTOR: [redacted] — SUBMISSION DATE: DAY 30 MO Nov. YR. 85

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED 13 01 86
DATE OF INSPECTION | INSPECTOR
REMARKS

CSS.ES

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FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

6710346

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11

MUNICIP 67012 CON. CON 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC	LOT
Wellington	Puslinch	III	8

OWNER (SURNAME FIRST)	ADDRESS	DATE COMPLETED
Van-Del Contracting LTD	RR#1 Breslau Ont N0B 1M0	DAY 8 MO May YR 90

21 ZONE EASTING NORTHING RC. ELEVATION RC. BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Brown	clay	gravel stones		0	5
Grey	clay	silt	soft	5	80
Grey	sand	silt clay		80	94
White	Limestone			94	140

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
125	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS (29pm)
138	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	188	0	97
6 1/8	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC		97	140
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP (Air) 2 ☐ BAILER	100 GPM	1 HOURS 0 MINS

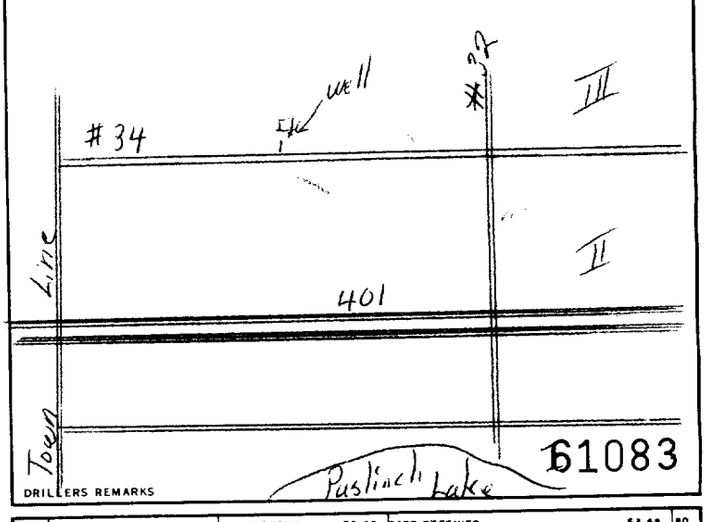
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
37 FEET	140 FEET	37 FEET	37 FEET	37 FEET	37 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	100 FEET	20 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS 61083

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED ☐ DEWATERING

WATER USE

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF CONSTRUCTION

1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☒ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING ☐ DIGGING ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Packham Well Drilling Inc.
WELL CONTRACTOR'S LICENCE NUMBER: 4207
ADDRESS: RR#2 Ancaster Ont.
NAME OF WELL TECHNICIAN: Mervyn Packham
WELL TECHNICIAN'S LICENCE NUMBER: 10058
SIGNATURE OF TECHNICIAN/CONTRACTOR: [redacted]
SUBMISSION DATE: DAY 8 MO May YR 90

OFFICE USE ONLY

DATA SOURCE
CONTRACTOR 4207
DATE RECEIVED JUN 26 1990
DATE OF INSPECTION
INSPECTOR
REMARKS

CSS.ES

FORM NO. 0506 (11/86) FORM 9

MINISTRY OF THE ENVIRONMENT COPY

Ministry of Environment and Energy
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

6712051

Municipality: 67012 Con.: CON 07

County or District: [redacted]

Township/Borough/City/Town/Village: Rushlinch

Con block tract survey, etc.: 7 Lot: 3

Address: R.R. #22 Cambridge

Date completed: 06 08 96 (day month year)

Northing RC Elevation RC Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth – feet From	Depth – feet To
	Gravel	Sand		0	20
	Sand		Fine	20	44
	Gravel	Sand		44	60
Brown	Clay	Sand Gravel		60	106
	Gravel	Sand	Fine	106	111
	Gravel		Coarse	111	
			Total =	111	
		6" Casing Drive Shoe			

WATER RECORD

Water found at – feet	Kind of water
111	☒ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas

CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth – feet From	Depth – feet To
6"	☒ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	.188	+2	111
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

PLUGGING & SEALING RECORD

☒ Annular space ☐ Abandonment

Depth set at – feet From	To	Material and type (Cement grout, bentonite, etc.)
0	20	Bentonite

PUMPING TEST

Pumping test method: ☒ Pump ☐ Bailer

Pumping rate: 20 GPM

Duration of pumping: 7 Hours ..... Mins

Static level	Water level end of pumping	15 minutes	30 minutes	45 minutes	60 minutes
59 feet	99 feet	69 feet	79 feet	89 feet	99 feet

Water levels during: ☒ Pumping ☐ Recovery

If flowing give rate: GPM

Pump intake set at: feet

Water at end of test: ☒ Clear ☐ Cloudy

Recommended pump type: ☐ Shallow ☒ Deep

Recommended pump setting: 100 feet

Recommended pump rate: 20 GPM

FINAL STATUS OF WELL

☒ Water supply ☐ Observation well ☐ Test hole ☐ Recharge well ☐ Abandoned, insufficient supply ☐ Abandoned, poor quality ☐ Abandoned (Other) ☐ Dewatering ☐ Unfinished ☐ Replacement well

WATER USE

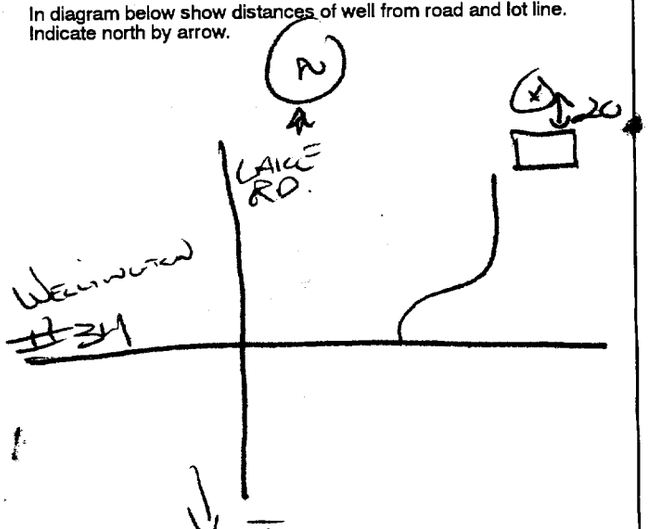
☒ Domestic ☐ Stock ☐ Irrigation ☐ Industrial ☐ Commercial ☐ Municipal ☐ Public supply ☐ Cooling & air conditioning ☐ Not used ☐ Other .....

METHOD OF CONSTRUCTION

☐ Cable tool ☐ Rotary (conventional) ☐ Rotary (reverse) ☒ Rotary (air) ☐ Air percussion ☐ Boring ☐ Diamond ☐ Jetting ☐ Driving ☐ Digging ☐ Other .....

LOCATION OF WELL

In diagram below show distances of well from road and lot line. Indicate north by arrow.



169102

Name of Well Contractor: Hansen Well Drilling Ltd. Well Contractor's Licence No.: 2663

Address: R.R. #5 Guelph Ont.

Name of Well Technician: Henry R. Hansen Well Technician's Licence No.: T-0590

[redacted] Submission date: 01 09 96 (day mo yr)

MINISTRY USE ONLY: Data source: Contractor 2663 Date received: AUG 27 1996

Date of inspection: Inspector:

Remarks:

CSS.ES

0506 (07/94) Front Form 9

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Ontario — Ministry of Environment and Energy

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 — 6714539 — Municipality 67012 — Con. CON 03

County or District	Township/Borough/City/Town/Village	Con. Block tract survey, etc.	Lot
[redacted]	PUSLINCH	3	8

Address of Well Location: 6670 WELLINGTON RD. #34

Date completed: 25 07 03 (day month year)

21 — UTM Zone | Easting | Northing | RC | Elevation | RC | Basin Code | ii | iii | iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
BLACK	TOP SOIL			0	2
BROWN	CLAY	SAND	SOFT	2	85
	GRAVEL			85	92
			TOTAL = 92 FT.		
		6"/4" CASING	DRIVE SHOE		

31

32

41 WATER RECORD

Water found at - feet	Kind of water
92	1 ☑ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
UNTESTED	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6/4	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	.188	+2	92
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic		GRAVEL PACK 90	92
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet

Material and type: | Depth at top of screen feet

61 PLUGGING & SEALING RECORD

☑ Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
0	20	BENTEAL

PUMPING TEST

71 — Pumping test method: 1 ☑ Pump 2 ☐ Bailer — Pumping rate: 20 GPM — Duration of pumping: 1 Hours ___ Mins

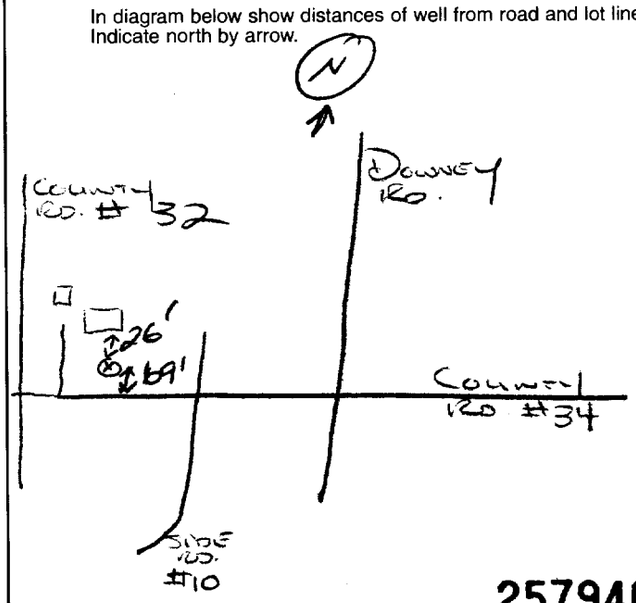
Static level	Water level end of pumping	Water levels during ☑ Pumping ☐ Recovery: 15 minutes	30 minutes	45 minutes	60 minutes
36 feet	40 feet	39 feet	40 feet	40 feet	40 feet

If flowing give rate: GPM — Pump intake set at: feet — Water at end of test: ☑ Clear ☐ Cloudy

Recommended pump type: ☐ Shallow ☑ Deep — Recommended pump setting: 80 feet — Recommended pump rate: 20 GPM

LOCATION OF WELL

In diagram below show distances of well from road and lot line. Indicate north by arrow.



257946

FINAL STATUS OF WELL

1 ☑ Water supply
2 ☐ Observation well
3 ☐ Test hole
4 ☐ Recharge well
5 ☐ Abandoned, insufficient supply
6 ☐ Abandoned, poor quality
7 ☐ Abandoned (Other)
8 ☐ Dewatering
9 ☐ Unfinished
10 ☐ Replacement well

WATER USE

1 ☑ Domestic
2 ☐ Stock
3 ☐ Irrigation
4 ☐ Industrial
5 ☐ Commercial
6 ☐ Municipal
7 ☐ Public supply
8 ☐ Cooling & air conditioning
9 ☐ Not use
10 ☐ Other

METHOD OF CONSTRUCTION

1 ☐ Cable tool
2 ☐ Rotary (conventional)
3 ☐ Rotary (reverse)
4 ☑ Rotary (air)
5 ☐ Air percussion
6 ☐ Boring
7 ☐ Diamond
8 ☐ Jetting
9 ☐ Driving
10 ☐ Digging
11 ☐ Other

Name of Well Contractor: HANSEN WELL DRILLING LTD — Well Contractor's Licence No.: 2663

Address: 22 #5 GUELPH ONT. N1H 6J2

Name of Well Technician: JOHN WHITNEY — Well Technician's Licence No.: T-2790

Signature of Technician/Contractor: [redacted] — Submission date: 01 08 03 (day mo yr)

MINISTRY USE ONLY: Data source 58 — Contractor 2663 — Date received AUG 12 2003

Date of inspection — Inspector

Remarks

2 - MINISTRY OF ENVIRONMENT AND ENERGY COPY

0506 (06/02) Front Form 9

18-08

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well T A 072033 (Print Below)

A072033

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

[redacted]

County/District/Municipality	City/Town/Village	Province	Postal Code
WELLINGTON	~~GUELPH~~ CAMBRIDGE	Ontario	

6666 WELL. RD #34 RR#22 — E PUSLINCH — 7 — 3

UTM Coordinates: NAD 83, Zone 17, Easting 560189, Northing 4810496

Municipal Plan and Sublot Number:

Other:

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BROWN	CLAY	STONES - SAND		0	18
BROWN	CLAY	SAND		18	45
BROWN	SAND			45	90
BROWN	SAND	GRAVEL		90	94
GREY	CLAY	GRAVEL		94	97
BROWN	LIMESTONE			97	102
			TOTAL	102 FT	

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	20	BENTONITE SLURRY	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☑ Other, specify AIR ROTARY

Well Use

☐ Public ☐ Commercial ☐ Not used
☑ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6 1/8	STEEL	.188	+2	98
6 1/8	OPEN HOLE		98	102

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Status of Well

☑ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Water Details

Water found at Depth 102 (m/ft) ☐ Gas — Kind of Water: ☑ Fresh ☐ Untested ☐ Other, specify

Water found at Depth (m/ft) ☐ Gas — Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify

Water found at Depth (m/ft) ☐ Gas — Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20	8 3/4
20	102	6 1/8"

Results of Well Yield Testing

After test of well yield, water was:
☑ Clear and sand free
☐ Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft): 80 FT

Pumping rate (l/min / GPM): 12 GPM

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 43 FT

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 80 FT

Recommended pump rate (l/min / GPM): 12 GPM.

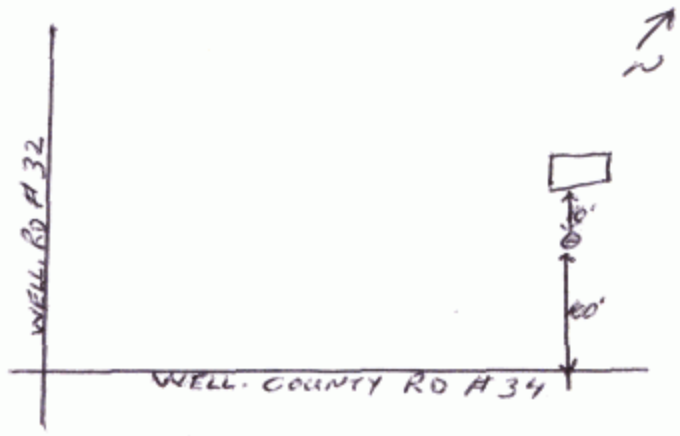
Well production (l/min / GPM): 12 GPM

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	35 FT		
1	38	1	40
2	40	2	38
3	41	3	37
4	41 6	4	36
5	42 6	5	35
10	42 6	10	35
15	43	15	35
20	43	20	35
25	43	25	35
30	43	30	35
40	43	40	35
50	43	50	35
60	43	60	35

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business ~~Name of Well Contractor~~ ADDRESS: 2086 SHANTZ STN. RD

Well Contractor's Licence No.: 7385

Business ~~Address (Street Number~~ Name): JIM WILSON WELL DRILLING

Municipality: BRESLAU.

Province: ON

Postal Code: N0B1M0

Business E-mail Address:

Bus. Telephone No. (inc. area code): 5196482412

Name of Well Technician (Last Name, First Name): WILSON JIM

Well Technician's Licence No.: T1924

Signature of Technician and/or Contractor: [redacted]

Date Submitted: 20080529

Well owner's information package delivered ☑ Yes ☐ No

Date Package Delivered: 20080505

Date Work Completed: 20080505

Ministry Use Only

Audit No. Z 80621

Received JUN 09 2008

0506E (12/2007)

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Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. (if applicable) **A 087181**

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

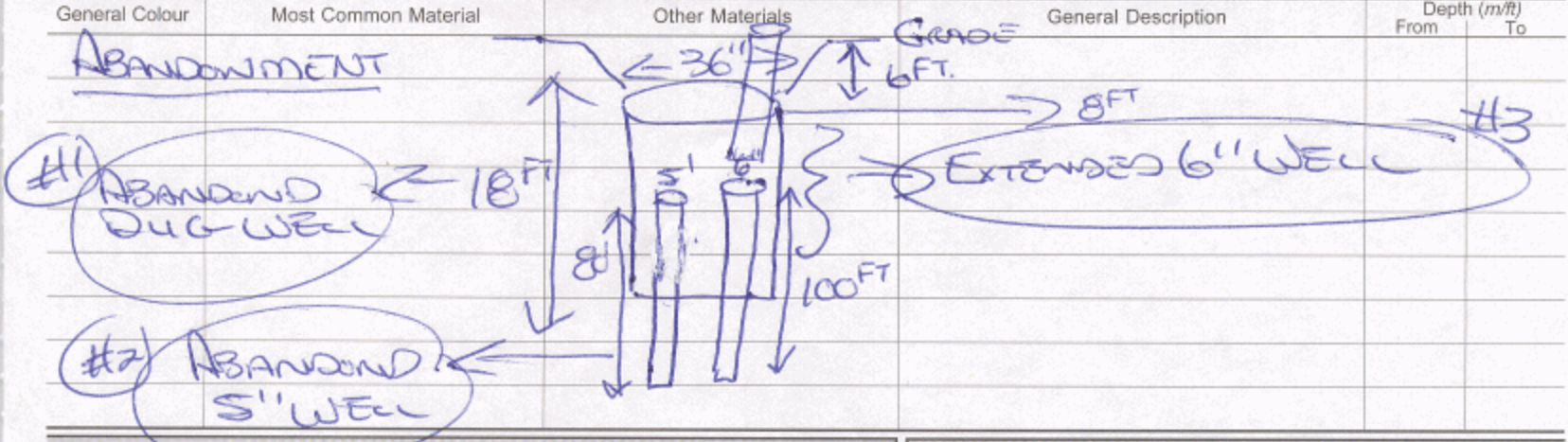
Address of Well Location (Street Number/Name)	Township	Lot	Concession
#6678 WELLINGTON RD. #34 RR#22	PUSLINCH	PT 8	3

County/District/Municipality	City/Town/Village	Province	Postal Code
WELLINGTON	PUSLINCH	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	560290	4810922		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
ABANDONMENT					



Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
#1) 0	18	BENTONITE + GRAVEL (DUG WELL)	
#2) -6	80	BENTONITE (5" WELL)	
		GRAVEL = 6 YARDS	
		BENTONITE = 1850 LBS.	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* ____

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* ____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☑ Alteration (Construction)
☑ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify* ____
☐ Other, *specify* ____

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* ____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Water Details

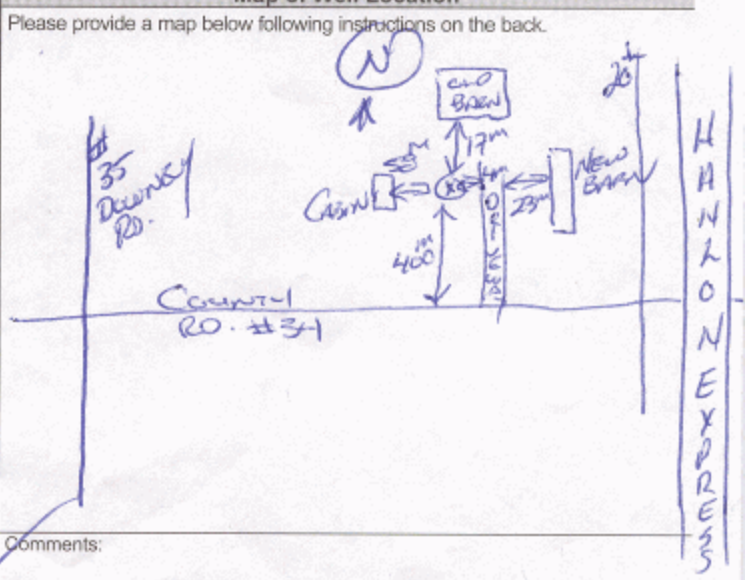
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify* ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify* ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify* ____

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
HANNON WELL DRILLING LTD	2663

Business Address (Street Number/Name)	Municipality
RR#5 GUELPH N1H 6J2	WELLINGTON

Province	Postal Code	Business E-mail Address
ONT.	N1H 6J2	hannonwellrilling@bellnet.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
519 763 8239	HANNON, HENRY

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2663	[redacted]	2009/12/15

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☑ No		2009/11/17

Ministry Use Only

Audit No. Z 107698

Received APR 23 2010

0506E (12/2007)

Ministry's Copy

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Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*

Tag#: A137700

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

[redacted]

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
6669 COUNTY RD #34	PUSLINCH TWP	8	2

County/District/Municipality	City/Town/Village	Province	Postal Code
WELLINGTON		Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	560279	4810368		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
BROWN	SAND	STONES		0	51ft
BROWN	SAND			51	90
BROWN	SAND	GRAVEL	WET	90	97
BROWN	LIMESTONE		BROKEN / CLAY LAYERS	97	112
GREY	LIMESTONE		HARD	112	137ft

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	20	GROUT	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☑ Other, *specify* AIR-RE

Well Use

☐ Public ☐ Commercial ☐ Not used
☑ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6"	STEEL	.188	+2	102
6"	OPEN HOLE		102	137

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
	N/A.			

Status of Well

☑ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth	Kind of Water	
105 (m/ft) ☐ Gas	☑ Fresh ☑ Untested ☐ Other, *specify*	
131 (m/ft) ☐ Gas	☑ Fresh ☑ Untested ☐ Other, *specify*	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	137	6"

Results of Well Yield Testing

After test of well yield, water was:
☑ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at (m/ft): 75ft

Pumping rate (l/min / GPM): 40

Duration of pumping: 1 hrs + ___ min

Final water level end of pumping (m/ft): 42

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 75-80ft

Recommended pump rate (l/min / GPM): 15-20

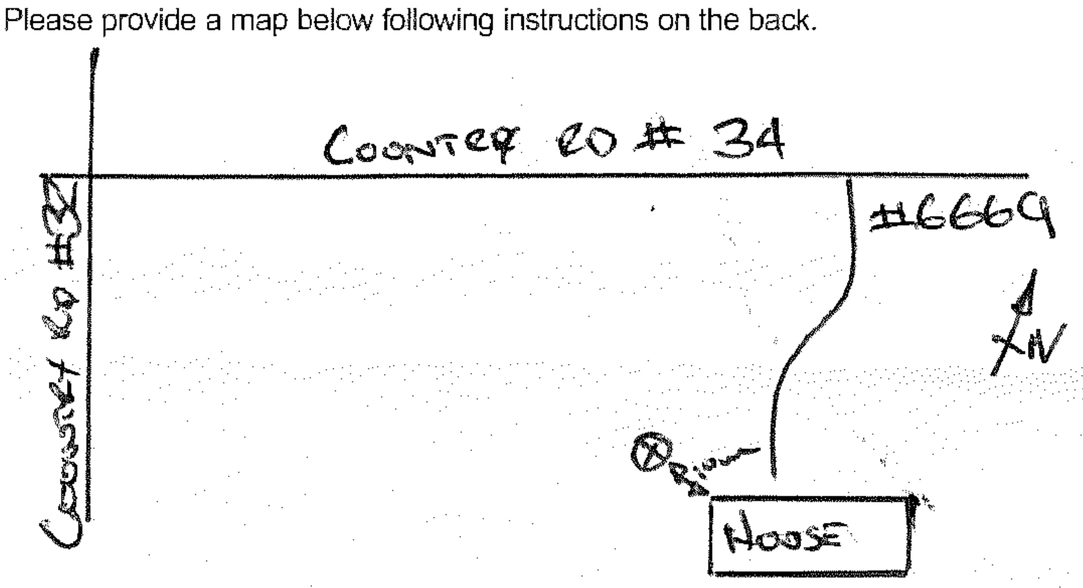
Well production (l/min / GPM): 60+ AIR

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	41ft		
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	42
15		15	
20		20	41
25		25	
30		30	
40		40	
50		50	
60		60	41

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
HIGHLAND WATER WELLS	2576

Business Address (Street Number/Name)	Municipality
Box 141, Durham	

Province	Postal Code	Business E-mail Address
ONT	N0G1R0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
5193696363	POPPLETON, NIGEL

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2130	[redacted]	20130319

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	YYYY MM DD	20130318

Ministry Use Only

Audit No. Z 162250

Rec'd JAN 06 2014

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Ministry's Copy

Ontario

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Go Back to Map

Well ID

Well ID Number: 7262884
Well Audit Number: *Z226390*
Well Tag Number: *A191498*

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	6656 WELLINGSTON RD 34
Township	PUSLINCH TOWNSHIP
Lot	007
Concession	CON 03
County/District/Municipality	WELLINGTON
City/Town/Village	Cambridge
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 560039.00 Northing: 4810550.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	SAND			0 ft	17 ft
	SAND	GRVL		17 ft	30 ft
	SAND	GRVL	CLAY	30 ft	50 ft
BRWN	SAND			50 ft	60 ft

BRWN	SAND	60 ft	101 ft
GREY	LMSN	101 ft	125 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	20 ft	BENTONITE SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
DUAL ROTARY	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6.125 inch	STEEL	-2 ft	103 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7556

Results of Well Yield Testing

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	110 ft
Pumping Rate	12 GPM
Duration of Pumping	1 h:0 m

Final water level	38.333 ft
If flowing give rate	
Recommended pump depth	110 ft
Recommended pump rate	12 GPM
Well Production	
Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	38 ft		
1	38.333 ft	1	38.083 ft
2	38.333 ft	2	38 ft
3	38.333 ft	3	38 ft
4	38.333 ft	4	38 ft
5	38.333 ft	5	38 ft
10	38.333 ft	10	38 ft
15	38.333 ft	15	38 ft
20	38.333 ft	20	38 ft
25	38.333 ft	25	38 ft
30	38.333 ft	30	38 ft
40	38.333 ft	40	38 ft
45		45	
50	38.333 ft	50	38 ft
60	38.333 ft	60	38 ft

Water Details

Water Found at Depth	Kind
125 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	20 ft	10 inch
20 ft	103 ft	6.625 inch
103 ft	125 ft	6 inch

Audit Number: Z226390

Date Well Completed: March 03, 2016

Date Well Record Received by MOE: May 11, 2016

Updated: January 24, 2020

Ontario

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Go Back to Map

Well ID

Well ID Number: 7262885
Well Audit Number: *Z226388*
Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	6656 WELL RD 34
Township	PUSLINCH TOWNSHIP
Lot	007
Concession	CON 03
County/District/Municipality	WELLINGTON
City/Town/Village	Cambridge
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 560654.00 Northing: 4810535.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	108 ft	HOLEPLUG	

Method of Construction & Well Use

Method of Construction	Well Use
	Domestic

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
4 inch	STEEL		

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7556

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production

Disinfected? Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: Z226388

Date Well Completed: March 03, 2016

Date Well Record Received by MOE: May 12, 2016

Updated: January 24, 2020

Appendix F

Laboratory Reports

GHD Limited (Waterloo)
ATTN: Laura Ermeta
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Date Received: 25-NOV-20
Report Date: 30-NOV-20 08:54 (MT)
Version: FINAL

Client Phone: 519-884-0510

Certificate of Analysis

Lab Work Order #: L2533335

Project P.O. #: 73522069
Job Reference: 11210029-02
C of C Numbers: 17-871527
Legal Site Desc:

[redacted]

Rick Hawthorne
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-1 GW-11210029-112420-MW-2 Sampled By: CLIENT on 24-NOV-20 @ 11:25 Matrix: WATER							
Physical Tests							
Conductivity	0.864		0.0030	mS/cm		26-NOV-20	R5298244
pH	7.46		0.10	pH units		26-NOV-20	R5298244
Anions and Nutrients							
Chloride (Cl)	8.11		0.50	mg/L		27-NOV-20	R5299616
Cyanides							
Cyanide, Weak Acid Diss	<2.0		2.0	ug/L		26-NOV-20	R5298560
Total Metals							
Aluminum (Al)-Total	0.0066		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Arsenic (As)-Total	0.00050		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Barium (Ba)-Total	0.0783		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Boron (B)-Total	0.068		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Cadmium (Cd)-Total	0.000101		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Calcium (Ca)-Total	93.7		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Chromium (Cr)-Total	<0.00050		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cobalt (Co)-Total	0.00159		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Copper (Cu)-Total	0.0180		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Iron (Fe)-Total	<0.010		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Lead (Pb)-Total	0.000270		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Lithium (Li)-Total	0.0026		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Magnesium (Mg)-Total	34.3		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Manganese (Mn)-Total	0.354		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		27-NOV-20	R5298809
Molybdenum (Mo)-Total	0.00114		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Nickel (Ni)-Total	0.00897		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Potassium (K)-Total	63.2	DLHC	0.50	mg/L	26-NOV-20	26-NOV-20	R5298095
Rubidium (Rb)-Total	0.0104		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Selenium (Se)-Total	0.000119		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Silicon (Si)-Total	4.98		0.10	mg/L	26-NOV-20	27-NOV-20	R5298095
Silver (Ag)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Sodium (Na)-Total	6.57		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Strontium (Sr)-Total	0.156		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Sulfur (S)-Total	7.18		0.50	mg/L	26-NOV-20	27-NOV-20	R5298095
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Thallium (Tl)-Total	0.000112		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	26-NOV-20	27-NOV-20	R5298095

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-1 GW-11210029-112420-MW-2 Sampled By: CLIENT on 24-NOV-20 @ 11:25 Matrix: WATER							
Total Metals							
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Uranium (U)-Total	0.000608		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Vanadium (V)-Total	<0.00050		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Zinc (Zn)-Total	0.0251		0.0030	mg/L	26-NOV-20	27-NOV-20	R5298095
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298103
Dissolved Metals Filtration Location	FIELD					26-NOV-20	R5297816
Antimony (Sb)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Arsenic (As)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Barium (Ba)-Dissolved	78.5	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Beryllium (Be)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Boron (B)-Dissolved	<100	DLHC	100	ug/L	26-NOV-20	26-NOV-20	R5298475
Cadmium (Cd)-Dissolved	0.118	DLHC	0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Chromium (Cr)-Dissolved	<5.0	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Cobalt (Co)-Dissolved	1.6	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Copper (Cu)-Dissolved	17.1	DLHC	2.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Lead (Pb)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Mercury (Hg)-Dissolved	<0.0050		0.0050	ug/L	26-NOV-20	27-NOV-20	R5298836
Molybdenum (Mo)-Dissolved	1.02	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Nickel (Ni)-Dissolved	9.2	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Selenium (Se)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Silver (Ag)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Sodium (Na)-Dissolved	6920	DLHC	500	ug/L	26-NOV-20	26-NOV-20	R5298475
Thallium (Tl)-Dissolved	0.10	DLHC	0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Uranium (U)-Dissolved	0.61	DLHC	0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Vanadium (V)-Dissolved	<5.0	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Zinc (Zn)-Dissolved	26	DLHC	10	ug/L	26-NOV-20	26-NOV-20	R5298475
Speciated Metals							
Chromium, Hexavalent	<0.50		0.50	ug/L		25-NOV-20	R5297893
Aggregate Organics							
Oil and Grease, Total	<5.0		5.0	mg/L	26-NOV-20	26-NOV-20	R5298859
Animal/Veg Oil & Grease	<5.0		5.0	mg/L		27-NOV-20	
Mineral Oil and Grease	<2.5		2.5	mg/L	26-NOV-20	26-NOV-20	R5298859
Volatile Organic Compounds							
Acetone	<30		30	ug/L		30-NOV-20	R5299578
Benzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Bromodichloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Bromoform	<5.0		5.0	ug/L		30-NOV-20	R5299578
Bromomethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Carbon tetrachloride	<0.20		0.20	ug/L		30-NOV-20	R5299578
Chlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-1 GW-11210029-112420-MW-2 Sampled By: CLIENT on 24-NOV-20 @ 11:25 Matrix: WATER							
Volatile Organic Compounds							
Dibromochloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Chloroform	<1.0		1.0	ug/L		30-NOV-20	R5299578
1,2-Dibromoethane	<0.20		0.20	ug/L		30-NOV-20	R5299578
1,2-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,3-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,4-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dichlorodifluoromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
1,1-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,2-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methylene Chloride	<5.0		5.0	ug/L		30-NOV-20	R5299578
1,2-Dichloropropane	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
trans-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L		30-NOV-20	
Ethylbenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
n-Hexane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methyl Ethyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
Methyl Isobutyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
MTBE	<2.0		2.0	ug/L		30-NOV-20	R5299578
Styrene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Tetrachloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Toluene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichlorofluoromethane	<5.0		5.0	ug/L		30-NOV-20	R5299578
Vinyl chloride	<0.50		0.50	ug/L		30-NOV-20	R5299578
o-Xylene	<0.30		0.30	ug/L		30-NOV-20	R5299578
m+p-Xylenes	<0.40		0.40	ug/L		30-NOV-20	R5299578
Xylenes (Total)	<0.50		0.50	ug/L		30-NOV-20	
Surrogate: 4-Bromofluorobenzene	98.6		70-130	%		30-NOV-20	R5299578
Surrogate: 1,4-Difluorobenzene	100.7		70-130	%		30-NOV-20	R5299578
Hydrocarbons							
F1 (C6-C10)	<25		25	ug/L		30-NOV-20	R5299578
F1-BTEX	<25		25	ug/L		30-NOV-20	
F2 (C10-C16)	<100		100	ug/L	25-NOV-20	26-NOV-20	R5298486

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-1 GW-11210029-112420-MW-2 Sampled By: CLIENT on 24-NOV-20 @ 11:25 Matrix: WATER							
Hydrocarbons							
F2-Naphth	<100		100	ug/L		30-NOV-20	
F3 (C16-C34)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
F3-PAH	<250		250	ug/L		30-NOV-20	
F4 (C34-C50)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
Total Hydrocarbons (C6-C50)	<370		370	ug/L		30-NOV-20	
Chrom. to baseline at nC50	YES				25-NOV-20	26-NOV-20	R5298486
Surrogate: 2-Bromobenzotrifluoride	91.8		60-140	%	25-NOV-20	26-NOV-20	R5298486
Surrogate: 3,4-Dichlorotoluene	81.5		60-140	%		30-NOV-20	R5299578
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Acenaphthylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)pyrene	<0.010		0.010	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(b)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(k)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Chrysene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluoranthene	0.031		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluorene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
1+2-Methylnaphthalenes	<0.028		0.028	ug/L		27-NOV-20	
1-Methylnaphthalene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
2-Methylnaphthalene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Naphthalene	<0.050		0.050	ug/L	25-NOV-20	27-NOV-20	R5298949
Phenanthrene	0.024		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Pyrene	0.037		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Acenaphthene	84.3		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d12-Chrysene	90.5		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d8-Naphthalene	86.2		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Phenanthrene	93.9		60-140	%	25-NOV-20	27-NOV-20	R5298949
Semi-Volatile Organics							
Biphenyl	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
4-Chloroaniline	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2-Chlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dichlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
Diethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-1 GW-11210029-112420-MW-2 Sampled By: CLIENT on 24-NOV-20 @ 11:25 Matrix: WATER							
Semi-Volatile Organics							
Dimethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dimethylphenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrophenol	<1.0		1.0	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,6-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4+2,6-Dinitrotoluene	<0.57		0.57	ug/L		27-NOV-20	
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	25-NOV-20	27-NOV-20	R5298692
Pentachlorophenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
Phenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,5-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,6-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2-Fluorobiphenyl	85.1		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: Nitrobenzene d5	94.5		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: p-Terphenyl d14	105.6		60-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2,4,6-Tribromophenol	115.1		50-140	%	25-NOV-20	27-NOV-20	R5298692
L2533335-2 GW-11210029-112420-MW-2D Sampled By: CLIENT on 24-NOV-20 @ 11:30 Matrix: WATER							
Physical Tests							
Conductivity	0.867		0.0030	mS/cm		26-NOV-20	R5299316
pH	7.68		0.10	pH units		26-NOV-20	R5299316
Anions and Nutrients							
Chloride (Cl)	8.00		0.50	mg/L		27-NOV-20	R5299616
Cyanides							
Cyanide, Weak Acid Diss	<2.0		2.0	ug/L		26-NOV-20	R5298560
Total Metals							
Aluminum (Al)-Total	0.0064		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Arsenic (As)-Total	0.00050		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Barium (Ba)-Total	0.0774		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Boron (B)-Total	0.070		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Cadmium (Cd)-Total	0.000102		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Calcium (Ca)-Total	95.4		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Chromium (Cr)-Total	<0.00050		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cobalt (Co)-Total	0.00163		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Copper (Cu)-Total	0.0175		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Iron (Fe)-Total	<0.010		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Lead (Pb)-Total	0.000171		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-2 GW-11210029-112420-MW-2D Sampled By: CLIENT on 24-NOV-20 @ 11:30 Matrix: WATER							
Total Metals							
Lithium (Li)-Total	0.0027		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Magnesium (Mg)-Total	34.6		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Manganese (Mn)-Total	0.357		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		27-NOV-20	R5298809
Molybdenum (Mo)-Total	0.00111		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Nickel (Ni)-Total	0.00919		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Potassium (K)-Total	63.7	DLHC	0.50	mg/L	26-NOV-20	26-NOV-20	R5298095
Rubidium (Rb)-Total	0.0105		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Selenium (Se)-Total	0.000125		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Silicon (Si)-Total	4.96		0.10	mg/L	26-NOV-20	27-NOV-20	R5298095
Silver (Ag)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Sodium (Na)-Total	6.78		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Strontium (Sr)-Total	0.155		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Sulfur (S)-Total	7.08		0.50	mg/L	26-NOV-20	27-NOV-20	R5298095
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Thallium (Tl)-Total	0.000113		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	26-NOV-20	27-NOV-20	R5298095
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Uranium (U)-Total	0.000609		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Vanadium (V)-Total	<0.00050		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Zinc (Zn)-Total	0.0253		0.0030	mg/L	26-NOV-20	27-NOV-20	R5298095
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298103
Dissolved Metals Filtration Location	FIELD					26-NOV-20	R5297816
Antimony (Sb)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Arsenic (As)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Barium (Ba)-Dissolved	78.5	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Beryllium (Be)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Boron (B)-Dissolved	<100	DLHC	100	ug/L	26-NOV-20	26-NOV-20	R5298475
Cadmium (Cd)-Dissolved	0.139	DLHC	0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Chromium (Cr)-Dissolved	<5.0	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Cobalt (Co)-Dissolved	1.6	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Copper (Cu)-Dissolved	17.0	DLHC	2.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Lead (Pb)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Mercury (Hg)-Dissolved	<0.0050		0.0050	ug/L	26-NOV-20	27-NOV-20	R5298836
Molybdenum (Mo)-Dissolved	1.12	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Nickel (Ni)-Dissolved	9.5	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-2 GW-11210029-112420-MW-2D Sampled By: CLIENT on 24-NOV-20 @ 11:30 Matrix: WATER							
Dissolved Metals							
Selenium (Se)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Silver (Ag)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Sodium (Na)-Dissolved	7340	DLHC	500	ug/L	26-NOV-20	26-NOV-20	R5298475
Thallium (Tl)-Dissolved	0.11	DLHC	0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Uranium (U)-Dissolved	0.60	DLHC	0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Vanadium (V)-Dissolved	<5.0	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Zinc (Zn)-Dissolved	26	DLHC	10	ug/L	26-NOV-20	26-NOV-20	R5298475
Speciated Metals							
Chromium, Hexavalent	<0.50		0.50	ug/L		25-NOV-20	R5297893
Aggregate Organics							
Oil and Grease, Total	<5.0		5.0	mg/L	26-NOV-20	26-NOV-20	R5298859
Animal/Veg Oil & Grease	<5.0		5.0	mg/L		27-NOV-20	
Mineral Oil and Grease	<2.5		2.5	mg/L	26-NOV-20	26-NOV-20	R5298859
Volatile Organic Compounds							
Acetone	<30		30	ug/L		30-NOV-20	R5299578
Benzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Bromodichloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Bromoform	<5.0		5.0	ug/L		30-NOV-20	R5299578
Bromomethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Carbon tetrachloride	<0.20		0.20	ug/L		30-NOV-20	R5299578
Chlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dibromochloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Chloroform	<1.0		1.0	ug/L		30-NOV-20	R5299578
1,2-Dibromoethane	<0.20		0.20	ug/L		30-NOV-20	R5299578
1,2-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,3-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,4-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dichlorodifluoromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
1,1-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,2-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methylene Chloride	<5.0		5.0	ug/L		30-NOV-20	R5299578
1,2-Dichloropropane	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
trans-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L		30-NOV-20	
Ethylbenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
n-Hexane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methyl Ethyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
Methyl Isobutyl Ketone	<20		20	ug/L		30-NOV-20	R5299578

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-2 GW-11210029-112420-MW-2D Sampled By: CLIENT on 24-NOV-20 @ 11:30 Matrix: WATER							
Volatile Organic Compounds							
MTBE	<2.0		2.0	ug/L		30-NOV-20	R5299578
Styrene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Tetrachloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Toluene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichlorofluoromethane	<5.0		5.0	ug/L		30-NOV-20	R5299578
Vinyl chloride	<0.50		0.50	ug/L		30-NOV-20	R5299578
o-Xylene	<0.30		0.30	ug/L		30-NOV-20	R5299578
m+p-Xylenes	<0.40		0.40	ug/L		30-NOV-20	R5299578
Xylenes (Total)	<0.50		0.50	ug/L		30-NOV-20	
Surrogate: 4-Bromofluorobenzene	97.7		70-130	%		30-NOV-20	R5299578
Surrogate: 1,4-Difluorobenzene	100.8		70-130	%		30-NOV-20	R5299578
Hydrocarbons							
F1 (C6-C10)	<25		25	ug/L		30-NOV-20	R5299578
F1-BTEX	<25		25	ug/L		30-NOV-20	
F2 (C10-C16)	<100		100	ug/L	25-NOV-20	26-NOV-20	R5298486
F2-Naphth	<100		100	ug/L		30-NOV-20	
F3 (C16-C34)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
F3-PAH	<250		250	ug/L		30-NOV-20	
F4 (C34-C50)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
Total Hydrocarbons (C6-C50)	<370		370	ug/L		30-NOV-20	
Chrom. to baseline at nC50	YES				25-NOV-20	26-NOV-20	R5298486
Surrogate: 2-Bromobenzotrifluoride	91.1		60-140	%	25-NOV-20	26-NOV-20	R5298486
Surrogate: 3,4-Dichlorotoluene	76.2		60-140	%		30-NOV-20	R5299578
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Acenaphthylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)pyrene	<0.010		0.010	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(b)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(k)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Chrysene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluoranthene	0.038		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluorene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-2 GW-11210029-112420-MW-2D Sampled By: CLIENT on 24-NOV-20 @ 11:30 Matrix: WATER							
Polycyclic Aromatic Hydrocarbons							
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
1+2-Methylnaphthalenes	<0.028		0.028	ug/L		27-NOV-20	
1-Methylnaphthalene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
2-Methylnaphthalene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Naphthalene	<0.050		0.050	ug/L	25-NOV-20	27-NOV-20	R5298949
Phenanthrene	0.027		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Pyrene	0.040		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Acenaphthene	89.3		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d12-Chrysene	93.9		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d8-Naphthalene	91.7		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Phenanthrene	98.1		60-140	%	25-NOV-20	27-NOV-20	R5298949
Semi-Volatile Organics							
Biphenyl	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
4-Chloroaniline	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2-Chlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dichlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
Diethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Dimethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dimethylphenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrophenol	<1.0		1.0	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,6-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4+2,6-Dinitrotoluene	<0.57		0.57	ug/L		27-NOV-20	
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	25-NOV-20	27-NOV-20	R5298692
Pentachlorophenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
Phenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,5-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,6-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2-Fluorobiphenyl	85.8		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: Nitrobenzene d5	93.7		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: p-Terphenyl d14	99.0		60-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2,4,6-Tribromophenol	114.6		50-140	%	25-NOV-20	27-NOV-20	R5298692
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Physical Tests							
Conductivity	0.609		0.0030	mS/cm		26-NOV-20	R5299316
pH	7.90		0.10	pH units		26-NOV-20	R5299316

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Physical Tests							
Anions and Nutrients							
Chloride (Cl)	4.80		0.50	mg/L		27-NOV-20	R5299616
Cyanides							
Cyanide, Weak Acid Diss	<2.0		2.0	ug/L		26-NOV-20	R5298560
Total Metals							
Aluminum (Al)-Total	0.210		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Antimony (Sb)-Total	0.00015		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Arsenic (As)-Total	0.00035		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Barium (Ba)-Total	0.0689		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Boron (B)-Total	0.012		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Cadmium (Cd)-Total	0.0000100		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Calcium (Ca)-Total	80.6		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cesium (Cs)-Total	0.000022		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Chromium (Cr)-Total	<0.00050		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cobalt (Co)-Total	0.00064		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Copper (Cu)-Total	0.00096		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Iron (Fe)-Total	0.224		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Lead (Pb)-Total	0.000299		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Lithium (Li)-Total	0.0099		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Magnesium (Mg)-Total	36.9		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Manganese (Mn)-Total	0.0906		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		27-NOV-20	R5298809
Molybdenum (Mo)-Total	0.0169		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Nickel (Ni)-Total	0.00162		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Potassium (K)-Total	1.91		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Rubidium (Rb)-Total	0.00106		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Selenium (Se)-Total	0.000226		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Silicon (Si)-Total	7.25		0.10	mg/L	26-NOV-20	27-NOV-20	R5298095
Silver (Ag)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Sodium (Na)-Total	6.78		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Strontium (Sr)-Total	0.158		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Sulfur (S)-Total	8.99		0.50	mg/L	26-NOV-20	27-NOV-20	R5298095
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Titanium (Ti)-Total	0.00891		0.00030	mg/L	26-NOV-20	27-NOV-20	R5298095
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Uranium (U)-Total	0.00200		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Total Metals							
Vanadium (V)-Total	0.00087		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	26-NOV-20	27-NOV-20	R5298095
Zirconium (Zr)-Total	0.00022		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298103
Dissolved Metals Filtration Location	FIELD					26-NOV-20	R5297816
Antimony (Sb)-Dissolved	0.15		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Arsenic (As)-Dissolved	0.31		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Barium (Ba)-Dissolved	67.9		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Beryllium (Be)-Dissolved	<0.10		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Boron (B)-Dissolved	11		10	ug/L	26-NOV-20	26-NOV-20	R5298475
Cadmium (Cd)-Dissolved	<0.010		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Chromium (Cr)-Dissolved	<0.50		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Cobalt (Co)-Dissolved	0.57		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Copper (Cu)-Dissolved	3.02		0.20	ug/L	26-NOV-20	26-NOV-20	R5298475
Lead (Pb)-Dissolved	0.109		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Mercury (Hg)-Dissolved	<0.0050		0.0050	ug/L	26-NOV-20	27-NOV-20	R5298836
Molybdenum (Mo)-Dissolved	15.8		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Nickel (Ni)-Dissolved	1.35		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Selenium (Se)-Dissolved	0.278		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Silver (Ag)-Dissolved	<0.050		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Sodium (Na)-Dissolved	6870		500	ug/L	26-NOV-20	26-NOV-20	R5298475
Thallium (Tl)-Dissolved	<0.010		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Uranium (U)-Dissolved	1.86		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Vanadium (V)-Dissolved	<0.50		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Zinc (Zn)-Dissolved	1.7		1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Speciated Metals							
Chromium, Hexavalent	<0.50		0.50	ug/L		25-NOV-20	R5297893
Aggregate Organics							
Oil and Grease, Total	<5.0		5.0	mg/L	26-NOV-20	26-NOV-20	R5298859
Animal/Veg Oil & Grease	<5.0		5.0	mg/L		27-NOV-20	
Mineral Oil and Grease	<2.5		2.5	mg/L	26-NOV-20	26-NOV-20	R5298859
Volatile Organic Compounds							
Acetone	<30		30	ug/L		30-NOV-20	R5299578
Benzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Bromodichloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Bromoform	<5.0		5.0	ug/L		30-NOV-20	R5299578
Bromomethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Carbon tetrachloride	<0.20		0.20	ug/L		30-NOV-20	R5299578
Chlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dibromochloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Chloroform	<1.0		1.0	ug/L		30-NOV-20	R5299578

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Volatile Organic Compounds							
1,2-Dibromoethane	<0.20		0.20	ug/L		30-NOV-20	R5299578
1,2-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,3-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,4-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dichlorodifluoromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
1,1-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,2-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methylene Chloride	<5.0		5.0	ug/L		30-NOV-20	R5299578
1,2-Dichloropropane	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
trans-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L		30-NOV-20	
Ethylbenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
n-Hexane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methyl Ethyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
Methyl Isobutyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
MTBE	<2.0		2.0	ug/L		30-NOV-20	R5299578
Styrene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Tetrachloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Toluene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichlorofluoromethane	<5.0		5.0	ug/L		30-NOV-20	R5299578
Vinyl chloride	<0.50		0.50	ug/L		30-NOV-20	R5299578
o-Xylene	<0.30		0.30	ug/L		30-NOV-20	R5299578
m+p-Xylenes	<0.40		0.40	ug/L		30-NOV-20	R5299578
Xylenes (Total)	<0.50		0.50	ug/L		30-NOV-20	
Surrogate: 4-Bromofluorobenzene	98.0		70-130	%		30-NOV-20	R5299578
Surrogate: 1,4-Difluorobenzene	100.4		70-130	%		30-NOV-20	R5299578
Hydrocarbons							
F1 (C6-C10)	<25		25	ug/L		30-NOV-20	R5299578
F1-BTEX	<25		25	ug/L		30-NOV-20	
F2 (C10-C16)	<100		100	ug/L	25-NOV-20	26-NOV-20	R5298486
F2-Naphth	<100		100	ug/L		30-NOV-20	
F3 (C16-C34)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Hydrocarbons							
F3-PAH	<250		250	ug/L		30-NOV-20	
F4 (C34-C50)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
Total Hydrocarbons (C6-C50)	<370		370	ug/L		30-NOV-20	
Chrom. to baseline at nC50	YES				25-NOV-20	26-NOV-20	R5298486
Surrogate: 2-Bromobenzotrifluoride	90.2		60-140	%	25-NOV-20	26-NOV-20	R5298486
Surrogate: 3,4-Dichlorotoluene	79.0		60-140	%		30-NOV-20	R5299578
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Acenaphthylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)pyrene	<0.010		0.010	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(b)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(k)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Chrysene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluoranthene	0.059		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluorene	0.031	AI	0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
1+2-Methylnaphthalenes	0.067		0.028	ug/L		27-NOV-20	
1-Methylnaphthalene	0.024		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
2-Methylnaphthalene	0.043		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Naphthalene	<0.050		0.050	ug/L	25-NOV-20	27-NOV-20	R5298949
Phenanthrene	0.210		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Pyrene	0.059		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Acenaphthene	82.3		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d12-Chrysene	90.5		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d8-Naphthalene	85.6		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Phenanthrene	93.0		60-140	%	25-NOV-20	27-NOV-20	R5298949
Semi-Volatile Organics							
Biphenyl	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
4-Chloroaniline	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2-Chlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dichlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
Diethylphthalate	0.29	RRR	0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Dimethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dimethylphenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Semi-Volatile Organics							
2,4-Dinitrophenol	<1.0		1.0	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,6-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4+2,6-Dinitrotoluene	<0.57		0.57	ug/L		27-NOV-20	
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	25-NOV-20	27-NOV-20	R5298692
Pentachlorophenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
Phenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,5-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,6-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2-Fluorobiphenyl	91.1		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: Nitrobenzene d5	120.5		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: p-Terphenyl d14	110.3		60-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2,4,6-Tribromophenol	127.7		50-140	%	25-NOV-20	27-NOV-20	R5298692
Report Remarks : RRR: Although the method blank is non-detect there is a strong peak for Diethylphthalate causing uncertainty near the detection limit, interpret as a maximum value.							
L2533335-4 GW-11210029-112520-MW-1 Sampled By: CLIENT on 25-NOV-20 @ 11:20 Matrix: WATER							
Physical Tests							
Conductivity	0.557		0.0030	mS/cm		26-NOV-20	R5299316
pH	8.07		0.10	pH units		26-NOV-20	R5299316
Anions and Nutrients							
Chloride (Cl)	8.17		0.50	mg/L		27-NOV-20	R5299616
Cyanides							
Cyanide, Weak Acid Diss	<2.0		2.0	ug/L		26-NOV-20	R5298560
Total Metals							
Aluminum (Al)-Total	0.352		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Antimony (Sb)-Total	0.00023		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Arsenic (As)-Total	0.00057		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Barium (Ba)-Total	0.0729		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Boron (B)-Total	0.024		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Cadmium (Cd)-Total	0.0000257		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Calcium (Ca)-Total	71.4		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cesium (Cs)-Total	0.000033		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Chromium (Cr)-Total	0.00088		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cobalt (Co)-Total	0.00059		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Copper (Cu)-Total	0.00139		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Iron (Fe)-Total	0.417		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Lead (Pb)-Total	0.000628		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Lithium (Li)-Total	0.0091		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-4 GW-11210029-112520-MW-1 Sampled By: CLIENT on 25-NOV-20 @ 11:20 Matrix: WATER							
Total Metals							
Magnesium (Mg)-Total	30.1		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Manganese (Mn)-Total	0.114		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		27-NOV-20	R5298809
Molybdenum (Mo)-Total	0.00424		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Nickel (Ni)-Total	0.00146		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Potassium (K)-Total	4.10		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Rubidium (Rb)-Total	0.00100		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Selenium (Se)-Total	0.000074		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Silicon (Si)-Total	6.11		0.10	mg/L	26-NOV-20	27-NOV-20	R5298095
Silver (Ag)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Sodium (Na)-Total	8.50		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Strontium (Sr)-Total	0.257		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Sulfur (S)-Total	8.36		0.50	mg/L	26-NOV-20	27-NOV-20	R5298095
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Thallium (Tl)-Total	0.000011		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Tin (Sn)-Total	0.00016		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Titanium (Ti)-Total	0.0128		0.00030	mg/L	26-NOV-20	27-NOV-20	R5298095
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Uranium (U)-Total	0.000879		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Vanadium (V)-Total	0.00092		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Zinc (Zn)-Total	0.0065		0.0030	mg/L	26-NOV-20	27-NOV-20	R5298095
Zirconium (Zr)-Total	0.00037		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298103
Dissolved Metals Filtration Location	FIELD					26-NOV-20	R5297816
Antimony (Sb)-Dissolved	0.18		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Arsenic (As)-Dissolved	0.41		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Barium (Ba)-Dissolved	67.5		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Beryllium (Be)-Dissolved	<0.10		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Boron (B)-Dissolved	22		10	ug/L	26-NOV-20	26-NOV-20	R5298475
Cadmium (Cd)-Dissolved	<0.010		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Chromium (Cr)-Dissolved	<0.50		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Cobalt (Co)-Dissolved	0.39		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Copper (Cu)-Dissolved	0.66		0.20	ug/L	26-NOV-20	26-NOV-20	R5298475
Lead (Pb)-Dissolved	<0.050		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Mercury (Hg)-Dissolved	<0.0050		0.0050	ug/L	26-NOV-20	27-NOV-20	R5298836
Molybdenum (Mo)-Dissolved	3.77		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Nickel (Ni)-Dissolved	0.88		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Selenium (Se)-Dissolved	0.069		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-4 GW-11210029-112520-MW-1 Sampled By: CLIENT on 25-NOV-20 @ 11:20 Matrix: WATER							
Dissolved Metals							
Silver (Ag)-Dissolved	<0.050		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Sodium (Na)-Dissolved	8450		500	ug/L	26-NOV-20	26-NOV-20	R5298475
Thallium (Tl)-Dissolved	<0.010		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Uranium (U)-Dissolved	0.764		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Vanadium (V)-Dissolved	<0.50		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Zinc (Zn)-Dissolved	1.3		1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Speciated Metals							
Chromium, Hexavalent	<0.50		0.50	ug/L		25-NOV-20	R5297893
Aggregate Organics							
Oil and Grease, Total	<5.0		5.0	mg/L	26-NOV-20	26-NOV-20	R5298859
Animal/Veg Oil & Grease	<5.0		5.0	mg/L		27-NOV-20	
Mineral Oil and Grease	<2.5		2.5	mg/L	26-NOV-20	26-NOV-20	R5298859
Volatile Organic Compounds							
Acetone	<30		30	ug/L		30-NOV-20	R5299578
Benzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Bromodichloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Bromoform	<5.0		5.0	ug/L		30-NOV-20	R5299578
Bromomethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Carbon tetrachloride	<0.20		0.20	ug/L		30-NOV-20	R5299578
Chlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dibromochloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Chloroform	<1.0		1.0	ug/L		30-NOV-20	R5299578
1,2-Dibromoethane	<0.20		0.20	ug/L		30-NOV-20	R5299578
1,2-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,3-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,4-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dichlorodifluoromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
1,1-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,2-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methylene Chloride	<5.0		5.0	ug/L		30-NOV-20	R5299578
1,2-Dichloropropane	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
trans-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L		30-NOV-20	
Ethylbenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
n-Hexane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methyl Ethyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
Methyl Isobutyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
MTBE	<2.0		2.0	ug/L		30-NOV-20	R5299578

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-4 GW-11210029-112520-MW-1 Sampled By: CLIENT on 25-NOV-20 @ 11:20 Matrix: WATER							
Volatile Organic Compounds							
Styrene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Tetrachloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Toluene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichlorofluoromethane	<5.0		5.0	ug/L		30-NOV-20	R5299578
Vinyl chloride	<0.50		0.50	ug/L		30-NOV-20	R5299578
o-Xylene	<0.30		0.30	ug/L		30-NOV-20	R5299578
m+p-Xylenes	<0.40		0.40	ug/L		30-NOV-20	R5299578
Xylenes (Total)	<0.50		0.50	ug/L		30-NOV-20	
Surrogate: 4-Bromofluorobenzene	98.1		70-130	%		30-NOV-20	R5299578
Surrogate: 1,4-Difluorobenzene	100.3		70-130	%		30-NOV-20	R5299578
Hydrocarbons							
F1 (C6-C10)	<25		25	ug/L		30-NOV-20	R5299578
F1-BTEX	<25		25	ug/L		30-NOV-20	
F2 (C10-C16)	<100		100	ug/L	25-NOV-20	26-NOV-20	R5298486
F2-Naphth	<100		100	ug/L		30-NOV-20	
F3 (C16-C34)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
F3-PAH	<250		250	ug/L		30-NOV-20	
F4 (C34-C50)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
Total Hydrocarbons (C6-C50)	<370		370	ug/L		30-NOV-20	
Chrom. to baseline at nC50	YES				25-NOV-20	26-NOV-20	R5298486
Surrogate: 2-Bromobenzotrifluoride	95.5		60-140	%	25-NOV-20	26-NOV-20	R5298486
Surrogate: 3,4-Dichlorotoluene	83.6		60-140	%		30-NOV-20	R5299578
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Acenaphthylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)pyrene	<0.010		0.010	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(b)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(k)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Chrysene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluoranthene	0.091		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluorene	0.053		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-4 GW-11210029-112520-MW-1 Sampled By: CLIENT on 25-NOV-20 @ 11:20 Matrix: WATER							
Polycyclic Aromatic Hydrocarbons							
1+2-Methylnaphthalenes	0.141		0.028	ug/L		27-NOV-20	
1-Methylnaphthalene	0.047		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
2-Methylnaphthalene	0.094		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Naphthalene	0.073		0.050	ug/L	25-NOV-20	27-NOV-20	R5298949
Phenanthrene	0.384		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Pyrene	0.096		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Acenaphthene	87.0		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d12-Chrysene	95.0		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d8-Naphthalene	89.7		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Phenanthrene	93.0		60-140	%	25-NOV-20	27-NOV-20	R5298949
Semi-Volatile Organics							
Biphenyl	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
4-Chloroaniline	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2-Chlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dichlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
Diethylphthalate	0.29	RRR	0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Dimethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dimethylphenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrophenol	<1.0		1.0	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,6-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4+2,6-Dinitrotoluene	<0.57		0.57	ug/L		27-NOV-20	
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	25-NOV-20	27-NOV-20	R5298692
Pentachlorophenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
Phenol	0.53		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,5-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,6-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2-Fluorobiphenyl	86.5		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: Nitrobenzene d5	92.9		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: p-Terphenyl d14	81.5		60-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2,4,6-Tribromophenol	122.9		50-140	%	25-NOV-20	27-NOV-20	R5298692
Report Remarks : RRR: Although the method blank is non-detect there is a strong peak for Diethylphthalate causing uncertainty near the detection limit, interpret as a maximum value.							
L2533335-5 TRIP BLANK Sampled By: CLIENT on 25-NOV-20 @ 12:00 Matrix: WATER							
Volatile Organic Compounds							
Acetone	<30		30	ug/L		30-NOV-20	R5299578

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-5 TRIP BLANK Sampled By: CLIENT on 25-NOV-20 @ 12:00 Matrix: WATER							
Volatile Organic Compounds							
Benzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Bromodichloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Bromoform	<5.0		5.0	ug/L		30-NOV-20	R5299578
Bromomethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Carbon tetrachloride	<0.20		0.20	ug/L		30-NOV-20	R5299578
Chlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dibromochloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Chloroform	<1.0		1.0	ug/L		30-NOV-20	R5299578
1,2-Dibromoethane	<0.20		0.20	ug/L		30-NOV-20	R5299578
1,2-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,3-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,4-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dichlorodifluoromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
1,1-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,2-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methylene Chloride	<5.0		5.0	ug/L		30-NOV-20	R5299578
1,2-Dichloropropane	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
trans-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L		30-NOV-20	
Ethylbenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
n-Hexane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methyl Ethyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
Methyl Isobutyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
MTBE	<2.0		2.0	ug/L		30-NOV-20	R5299578
Styrene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Tetrachloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Toluene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichlorofluoromethane	<5.0		5.0	ug/L		30-NOV-20	R5299578
Vinyl chloride	<0.50		0.50	ug/L		30-NOV-20	R5299578
o-Xylene	<0.30		0.30	ug/L		30-NOV-20	R5299578
m+p-Xylenes	<0.40		0.40	ug/L		30-NOV-20	R5299578
Xylenes (Total)	<0.50		0.50	ug/L		30-NOV-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-5 TRIP BLANK Sampled By: CLIENT on 25-NOV-20 @ 12:00 Matrix: WATER							
Volatile Organic Compounds							
Surrogate: 4-Bromofluorobenzene	98.4		70-130	%		30-NOV-20	R5299578
Surrogate: 1,4-Difluorobenzene	100.4		70-130	%		30-NOV-20	R5299578
Hydrocarbons							
F1 (C6-C10)	<25		25	ug/L		30-NOV-20	R5299578
F1-BTEX	<25		25	ug/L		30-NOV-20	
Surrogate: 3,4-Dichlorotoluene	86.6		60-140	%		30-NOV-20	R5299578

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Cyanide, Weak Acid Diss	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Aluminum (Al)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Barium (Ba)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Boron (B)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Iron (Fe)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Lithium (Li)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Molybdenum (Mo)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Potassium (K)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Rubidium (Rb)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Silicon (Si)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Sodium (Na)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Sulfur (S)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Uranium (U)-Total	MS-B	L2533335-1, -2, -3, -4

Sample Parameter Qualifier key listed:

Qualifier	Description
AI	Analytical interferences may be present. Result may be biased high.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRR	Refer to Report Remarks for issues regarding this analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
625-511-WT	Water	ABN,CP,PAH-O.Reg 153/04	SW846 8270 (511)

Ground water sample extraction is carried out at a pH <2 (acid extractables) and pH>11 (base neutral extractables). Extracts are dried, concentrated and exchanged into a solvent compatible with the cleanup. Analysis is by GC/MS. Depending on the analytical GC/MS column used benzo(j)fluoranthene may chromatographically co-elute with benzo(b)fluoranthene or benzo(k)fluoranthene.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

CL-IC-N-WT	Water	Chloride by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CN-WAD-R511-WT	Water	Cyanide (WAD)-O.Reg 153/04	APHA 4500CN I-Weak acid Dist Colorimet

Weak acid dissociable cyanide (WAD) is determined by undergoing a distillation procedure. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-R511-WT	Water	Hex Chrom-O.Reg 153/04 (July 2011)	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DINITROTOL-CALC-WT	Water	ABN-Calculated Parameters	SW846 8270
EC-R511-WT	Water	Conductivity-O.Reg 153/04 (July 2011)	APHA 2510 B

Water samples can be measured directly by immersing the conductivity cell into the sample.

Reference Information

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-SCREEN-WT	Water	Conductivity Screen (Internal Use Only)	APHA 2510

Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.

F1-F4-511-CALC-WT	Water	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-L

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Water	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-D-UG/L-CVAA-WT	Water	Diss. Mercury in Water by CVAAS (ug/L)	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-T-CVAA-WT	Water	Total Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MET-D-UG/L-MS-WT	Water	Diss. Metals in Water by ICPMS (ug/L)	EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MET-T-CCMS-WT	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Reference Information

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

METHYLNAPS-CALC-WT	Water	PAH-Calculated Parameters	SW846 8270

OGG-SPEC-CALC-WT	Water	Speciated Oil and Grease A/V Calc	CALCULATION

Sample is extracted with hexane, sample speciation into mineral and animal/vegetable fractions is achieved via silica gel separation and is then determined gravimetrically.

OGG-SPEC-WT	Water	Speciated Oil and Grease-Gravimetric	APHA 5520 B

The procedure involves an extraction of the entire water sample with hexane. Sample speciation into mineral and animal/vegetable fractions is achieved via silica gel separation and is then determined gravimetrically.

PAH-511-WT	Water	PAH-O. Reg 153/04 (July 2011)	SW846 3510/8270

Aqueous samples, fortified with surrogates, are extracted using liquid/liquid extraction technique. The sample extracts are concentrated and then analyzed using GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT	Water	pH	APHA 4500 H-Electrode

Water samples are analyzed directly by a calibrated pH meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011). Holdtime for samples under this regulation is 28 days

VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C

VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

17-871527

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Water**							
Batch R5298692								
WG3451657-2 LCS								
1,2,4-Trichlorobenzene			89.1		%		50-140	27-NOV-20
2-Chlorophenol			84.1		%		50-140	27-NOV-20
2,4-Dichlorophenol			96.6		%		50-140	27-NOV-20
2,4-Dimethylphenol			76.6		%		30-130	27-NOV-20
2,4-Dinitrophenol			117.8		%		50-140	27-NOV-20
2,4-Dinitrotoluene			119.4		%		50-140	27-NOV-20
2,4,5-Trichlorophenol			101.0		%		50-140	27-NOV-20
2,4,6-Trichlorophenol			99.2		%		50-140	27-NOV-20
2,6-Dinitrotoluene			99.4		%		50-140	27-NOV-20
3,3'-Dichlorobenzidine			84.7		%		30-130	27-NOV-20
4-Chloroaniline			85.2		%		30-130	27-NOV-20
Biphenyl			97.8		%		50-140	27-NOV-20
Bis(2-chloroethyl)ether			88.4		%		50-140	27-NOV-20
Bis(2-chloroisopropyl)ether			87.1		%		50-140	27-NOV-20
Bis(2-ethylhexyl)phthalate			107.8		%		50-140	27-NOV-20
Diethylphthalate			94.7		%		50-140	27-NOV-20
Dimethylphthalate			93.5		%		50-140	27-NOV-20
Pentachlorophenol			112.4		%		50-140	27-NOV-20
Phenol			115.9		%		30-130	27-NOV-20
WG3451657-1 MB								
1,2,4-Trichlorobenzene			<0.40		ug/L		0.4	27-NOV-20
2-Chlorophenol			<0.30		ug/L		0.3	27-NOV-20
2,4-Dichlorophenol			<0.30		ug/L		0.3	27-NOV-20
2,4-Dimethylphenol			<0.50		ug/L		0.5	27-NOV-20
2,4-Dinitrophenol			<1.0		ug/L		1	27-NOV-20
2,4-Dinitrotoluene			<0.40		ug/L		0.4	27-NOV-20
2,4,5-Trichlorophenol			<0.20		ug/L		0.2	27-NOV-20
2,4,6-Trichlorophenol			<0.20		ug/L		0.2	27-NOV-20
2,6-Dinitrotoluene			<0.40		ug/L		0.4	27-NOV-20
3,3'-Dichlorobenzidine			<0.40		ug/L		0.4	27-NOV-20
4-Chloroaniline			<0.40		ug/L		0.4	27-NOV-20
Biphenyl			<0.40		ug/L		0.4	27-NOV-20
Bis(2-chloroethyl)ether			<0.40		ug/L		0.4	27-NOV-20
Bis(2-chloroisopropyl)ether			<0.40		ug/L		0.4	27-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Water**							
Batch R5298692								
WG3451657-1 MB								
Bis(2-ethylhexyl)phthalate			<2.0		ug/L		2	27-NOV-20
Diethylphthalate			<0.20		ug/L		0.2	27-NOV-20
Dimethylphthalate			<0.20		ug/L		0.2	27-NOV-20
Pentachlorophenol			<0.50		ug/L		0.5	27-NOV-20
Phenol			<0.50		ug/L		0.5	27-NOV-20
Surrogate: 2-Fluorobiphenyl			84.6		%		50-140	27-NOV-20
Surrogate: 2,4,6-Tribromophenol			72.1		%		50-140	27-NOV-20
Surrogate: Nitrobenzene d5			83.5		%		50-140	27-NOV-20
Surrogate: p-Terphenyl d14			103.5		%		60-140	27-NOV-20
CL-IC-N-WT	**Water**							
Batch R5299616								
WG3453128-4 DUP		**WG3453128-3**						
Chloride (Cl)		2.94	2.94		mg/L	0.2	20	27-NOV-20
WG3453128-2 LCS								
Chloride (Cl)			101.6		%		90-110	27-NOV-20
WG3453128-1 MB								
Chloride (Cl)			<0.50		mg/L		0.5	27-NOV-20
WG3453128-5 MS		**WG3453128-3**						
Chloride (Cl)			99.9		%		75-125	27-NOV-20
CN-WAD-R511-WT	**Water**							
Batch R5298560								
WG3451693-3 DUP		**WG3451693-5**						
Cyanide, Weak Acid Diss		655	652		ug/L	0.4	20	26-NOV-20
WG3451693-2 LCS								
Cyanide, Weak Acid Diss			101.9		%		80-120	26-NOV-20
WG3451693-1 MB								
Cyanide, Weak Acid Diss			<2.0		ug/L		2	26-NOV-20
WG3451693-4 MS		**WG3451693-5**						
Cyanide, Weak Acid Diss			N/A	MS-B	%		-	26-NOV-20
CR-CR6-IC-R511-WT	**Water**							
Batch R5297893								
WG3451701-4 DUP		**WG3451701-3**						
Chromium, Hexavalent		<0.50	<0.50	RPD-NA	ug/L	N/A	20	25-NOV-20
WG3451701-2 LCS								
Chromium, Hexavalent			99.4		%		80-120	25-NOV-20
WG3451701-1 MB								

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-IC-R511-WT	**Water**							
Batch R5297893								
WG3451701-1 MB								
Chromium, Hexavalent			<0.50		ug/L		0.5	25-NOV-20
WG3451701-5 MS		**WG3451701-3**						
Chromium, Hexavalent			96.8		%		70-130	25-NOV-20
EC-R511-WT	**Water**							
Batch R5298244								
WG3452155-4 DUP		**WG3452155-3**						
Conductivity		0.241	0.245		mS/cm	1.6	10	26-NOV-20
WG3452155-2 LCS								
Conductivity			99.7		%		90-110	26-NOV-20
WG3452155-1 MB								
Conductivity			<0.0030		mS/cm		0.003	26-NOV-20
Batch R5299316								
WG3452156-4 DUP		**WG3452156-3**						
Conductivity		0.539	0.543		mS/cm	0.7	10	26-NOV-20
WG3452156-2 LCS								
Conductivity			99.2		%		90-110	26-NOV-20
WG3452156-1 MB								
Conductivity			<0.0030		mS/cm		0.003	26-NOV-20
F1-HS-511-WT	**Water**							
Batch R5299578								
WG3453379-4 DUP		**WG3453379-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	30-NOV-20
WG3453379-1 LCS								
F1 (C6-C10)			105.9		%		80-120	30-NOV-20
WG3453379-2 MB								
F1 (C6-C10)			<25		ug/L		25	30-NOV-20
Surrogate: 3,4-Dichlorotoluene			101.5		%		60-140	30-NOV-20
WG3453379-5 MS		**WG3453379-3**						
F1 (C6-C10)			83.4		%		60-140	30-NOV-20
F2-F4-511-WT	**Water**							
Batch R5298486								
WG3451674-2 LCS								
F2 (C10-C16)			99.9		%		70-130	26-NOV-20
F3 (C16-C34)			105.1		%		70-130	26-NOV-20
F4 (C34-C50)			103.1		%		70-130	26-NOV-20
WG3451674-1 MB								

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Water**							
Batch R5298486								
WG3451674-1 MB								
F2 (C10-C16)			<100		ug/L		100	26-NOV-20
F3 (C16-C34)			<250		ug/L		250	26-NOV-20
F4 (C34-C50)			<250		ug/L		250	26-NOV-20
Surrogate: 2-Bromobenzotrifluoride			89.9		%		60-140	26-NOV-20
HG-D-UG/L-CVAA-WT	**Water**							
Batch R5298836								
WG3452289-3 DUP		**L2532511-4**						
Mercury (Hg)-Dissolved		<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	27-NOV-20
WG3452289-2 LCS								
Mercury (Hg)-Dissolved			109.0		%		80-120	27-NOV-20
WG3452289-1 MB								
Mercury (Hg)-Dissolved			<0.0050		ug/L		0.005	27-NOV-20
WG3452289-4 MS		**L2532511-5**						
Mercury (Hg)-Dissolved			99.7		%		70-130	27-NOV-20
HG-T-CVAA-WT	**Water**							
Batch R5298809								
WG3452162-4 DUP		**WG3452162-3**						
Mercury (Hg)-Total		0.0000063	0.0000077	J	mg/L	0.0000014	0.00001	27-NOV-20
WG3452162-2 LCS								
Mercury (Hg)-Total			108.0		%		80-120	27-NOV-20
WG3452162-1 MB								
Mercury (Hg)-Total			<0.000005(		mg/L		0.000005	27-NOV-20
WG3452162-6 MS		**WG3452162-5**						
Mercury (Hg)-Total			110.7		%		70-130	27-NOV-20
MET-D-UG/L-MS-WT	**Water**							
Batch R5298475								
WG3451975-4 DUP		**WG3451975-3**						
Antimony (Sb)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	26-NOV-20
Arsenic (As)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	26-NOV-20
Barium (Ba)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	26-NOV-20
Beryllium (Be)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	26-NOV-20
Boron (B)-Dissolved		<10	<10	RPD-NA	ug/L	N/A	20	26-NOV-20
Cadmium (Cd)-Dissolved		<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	26-NOV-20
Chromium (Cr)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	26-NOV-20
Cobalt (Co)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5298475								
WG3451975-4 DUP		**WG3451975-3**						
Copper (Cu)-Dissolved		<0.20	<0.20	RPD-NA	ug/L	N/A	20	26-NOV-20
Lead (Pb)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	26-NOV-20
Molybdenum (Mo)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	26-NOV-20
Nickel (Ni)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	26-NOV-20
Selenium (Se)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	26-NOV-20
Silver (Ag)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	26-NOV-20
Sodium (Na)-Dissolved		<50	<50	RPD-NA	ug/L	N/A	20	26-NOV-20
Thallium (Tl)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	26-NOV-20
Uranium (U)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	26-NOV-20
Vanadium (V)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	26-NOV-20
Zinc (Zn)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	26-NOV-20
WG3451975-2 LCS								
Antimony (Sb)-Dissolved			103.4		%		80-120	26-NOV-20
Arsenic (As)-Dissolved			100.6		%		80-120	26-NOV-20
Barium (Ba)-Dissolved			98.3		%		80-120	26-NOV-20
Beryllium (Be)-Dissolved			103.7		%		80-120	26-NOV-20
Boron (B)-Dissolved			102.4		%		80-120	26-NOV-20
Cadmium (Cd)-Dissolved			99.6		%		80-120	26-NOV-20
Chromium (Cr)-Dissolved			99.1		%		80-120	26-NOV-20
Cobalt (Co)-Dissolved			97.8		%		80-120	26-NOV-20
Copper (Cu)-Dissolved			97.8		%		80-120	26-NOV-20
Lead (Pb)-Dissolved			100.8		%		80-120	26-NOV-20
Molybdenum (Mo)-Dissolved			103.1		%		80-120	26-NOV-20
Nickel (Ni)-Dissolved			99.3		%		80-120	26-NOV-20
Selenium (Se)-Dissolved			101.1		%		80-120	26-NOV-20
Silver (Ag)-Dissolved			99.6		%		80-120	26-NOV-20
Sodium (Na)-Dissolved			101.6		%		80-120	26-NOV-20
Thallium (Tl)-Dissolved			100.3		%		80-120	26-NOV-20
Uranium (U)-Dissolved			101.4		%		80-120	26-NOV-20
Vanadium (V)-Dissolved			101.3		%		80-120	26-NOV-20
Zinc (Zn)-Dissolved			98.1		%		80-120	26-NOV-20
WG3451975-1 MB								
Antimony (Sb)-Dissolved			<0.10		ug/L		0.1	26-NOV-20
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5298475								
WG3451975-1 MB								
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	26-NOV-20
Barium (Ba)-Dissolved			<0.10		ug/L		0.1	26-NOV-20
Beryllium (Be)-Dissolved			<0.10		ug/L		0.1	26-NOV-20
Boron (B)-Dissolved			<10		ug/L		10	26-NOV-20
Cadmium (Cd)-Dissolved			<0.0050		ug/L		0.005	26-NOV-20
Chromium (Cr)-Dissolved			<0.50		ug/L		0.5	26-NOV-20
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	26-NOV-20
Copper (Cu)-Dissolved			<0.20		ug/L		0.2	26-NOV-20
Lead (Pb)-Dissolved			<0.050		ug/L		0.05	26-NOV-20
Molybdenum (Mo)-Dissolved			<0.050		ug/L		0.05	26-NOV-20
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	26-NOV-20
Selenium (Se)-Dissolved			<0.050		ug/L		0.05	26-NOV-20
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	26-NOV-20
Sodium (Na)-Dissolved			<50		ug/L		50	26-NOV-20
Thallium (Tl)-Dissolved			<0.010		ug/L		0.01	26-NOV-20
Uranium (U)-Dissolved			<0.010		ug/L		0.01	26-NOV-20
Vanadium (V)-Dissolved			<0.50		ug/L		0.5	26-NOV-20
Zinc (Zn)-Dissolved			<1.0		ug/L		1	26-NOV-20
WG3451975-5 MS		**WG3451975-3**						
Antimony (Sb)-Dissolved			101.4		%		70-130	26-NOV-20
Arsenic (As)-Dissolved			101.2		%		70-130	26-NOV-20
Barium (Ba)-Dissolved			100.4		%		70-130	26-NOV-20
Beryllium (Be)-Dissolved			100.9		%		70-130	26-NOV-20
Boron (B)-Dissolved			97.2		%		70-130	26-NOV-20
Cadmium (Cd)-Dissolved			101.7		%		70-130	26-NOV-20
Chromium (Cr)-Dissolved			100.4		%		70-130	26-NOV-20
Cobalt (Co)-Dissolved			98.8		%		70-130	26-NOV-20
Copper (Cu)-Dissolved			99.1		%		70-130	26-NOV-20
Lead (Pb)-Dissolved			100.5		%		70-130	26-NOV-20
Molybdenum (Mo)-Dissolved			99.7		%		70-130	26-NOV-20
Nickel (Ni)-Dissolved			99.3		%		70-130	26-NOV-20
Selenium (Se)-Dissolved			104.5		%		70-130	26-NOV-20
Silver (Ag)-Dissolved			98.8		%		70-130	26-NOV-20
Sodium (Na)-Dissolved			101.7		%		70-130	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5298475								
WG3451975-5 MS		**WG3451975-3**						
Thallium (Tl)-Dissolved			101.6		%		70-130	26-NOV-20
Uranium (U)-Dissolved			99.2		%		70-130	26-NOV-20
Vanadium (V)-Dissolved			101.5		%		70-130	26-NOV-20
Zinc (Zn)-Dissolved			101.1		%		70-130	26-NOV-20
MET-T-CCMS-WT	**Water**							
Batch R5298095								
WG3451966-4 DUP		**WG3451966-3**						
Aluminum (Al)-Total		0.164	0.172		mg/L	4.4	20	26-NOV-20
Antimony (Sb)-Total		0.0013	0.0013		mg/L	2.5	20	26-NOV-20
Arsenic (As)-Total		0.0016	0.0018		mg/L	11	20	26-NOV-20
Barium (Ba)-Total		0.118	0.119		mg/L	0.5	20	26-NOV-20
Beryllium (Be)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	26-NOV-20
Bismuth (Bi)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	26-NOV-20
Boron (B)-Total		0.13	0.13		mg/L	1.0	20	26-NOV-20
Cadmium (Cd)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	26-NOV-20
Calcium (Ca)-Total		118	118		mg/L	0.4	20	26-NOV-20
Chromium (Cr)-Total		0.0051	<0.0050	RPD-NA	mg/L	N/A	20	26-NOV-20
Cesium (Cs)-Total		0.00016	0.00016		mg/L	1.4	20	26-NOV-20
Cobalt (Co)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	26-NOV-20
Copper (Cu)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	26-NOV-20
Iron (Fe)-Total		0.19	0.17		mg/L	7.4	20	26-NOV-20
Lead (Pb)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	26-NOV-20
Lithium (Li)-Total		0.067	0.066		mg/L	1.5	20	26-NOV-20
Magnesium (Mg)-Total		17.6	17.6		mg/L	0.1	20	26-NOV-20
Manganese (Mn)-Total		0.0082	0.0081		mg/L	1.1	20	26-NOV-20
Molybdenum (Mo)-Total		0.0127	0.0123		mg/L	2.7	20	26-NOV-20
Nickel (Ni)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	26-NOV-20
Phosphorus (P)-Total		<0.50	<0.50	RPD-NA	mg/L	N/A	20	26-NOV-20
Potassium (K)-Total		102	104		mg/L	1.5	20	26-NOV-20
Rubidium (Rb)-Total		0.184	0.185		mg/L	0.7	20	26-NOV-20
Selenium (Se)-Total		0.00062	0.00078	J	mg/L	0.00016	0.001	26-NOV-20
Silicon (Si)-Total		8.4	8.2		mg/L	2.1	20	26-NOV-20
Silver (Ag)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	**Water**							
Batch R5298095								
WG3451966-4 DUP		**WG3451966-3**						
Sodium (Na)-Total		109	110		mg/L	0.4	20	26-NOV-20
Strontium (Sr)-Total		1.91	1.93		mg/L	1.1	20	26-NOV-20
Sulfur (S)-Total		61.5	61.0		mg/L	0.8	25	26-NOV-20
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-NOV-20
Tellurium (Te)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	26-NOV-20
Thorium (Th)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	25	26-NOV-20
Tin (Sn)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	26-NOV-20
Titanium (Ti)-Total		0.0069	0.0061		mg/L	12	20	26-NOV-20
Tungsten (W)-Total		0.0012	0.0012		mg/L	4.5	20	26-NOV-20
Uranium (U)-Total		0.00055	0.00055		mg/L	1.2	20	26-NOV-20
Vanadium (V)-Total		0.0095	0.0093		mg/L	1.6	20	26-NOV-20
Zinc (Zn)-Total		<0.030	<0.030	RPD-NA	mg/L	N/A	20	26-NOV-20
Zirconium (Zr)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	26-NOV-20
WG3451966-2 LCS								
Aluminum (Al)-Total			111.0		%		80-120	26-NOV-20
Antimony (Sb)-Total			104.6		%		80-120	26-NOV-20
Arsenic (As)-Total			108.7		%		80-120	26-NOV-20
Barium (Ba)-Total			105.7		%		80-120	26-NOV-20
Beryllium (Be)-Total			103.9		%		80-120	26-NOV-20
Bismuth (Bi)-Total			102.3		%		80-120	26-NOV-20
Boron (B)-Total			99.4		%		80-120	26-NOV-20
Cadmium (Cd)-Total			105.9		%		80-120	26-NOV-20
Calcium (Ca)-Total			103.7		%		80-120	26-NOV-20
Chromium (Cr)-Total			107.7		%		80-120	26-NOV-20
Cesium (Cs)-Total			101.2		%		80-120	26-NOV-20
Cobalt (Co)-Total			106.6		%		80-120	26-NOV-20
Copper (Cu)-Total			105.6		%		80-120	26-NOV-20
Iron (Fe)-Total			102.7		%		80-120	26-NOV-20
Lead (Pb)-Total			102.8		%		80-120	26-NOV-20
Lithium (Li)-Total			99.5		%		80-120	26-NOV-20
Magnesium (Mg)-Total			113.6		%		80-120	26-NOV-20
Manganese (Mn)-Total			108.4		%		80-120	26-NOV-20
Molybdenum (Mo)-Total			106.2		%		80-120	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	**Water**							
Batch R5298095								
WG3451966-2 LCS								
Nickel (Ni)-Total			106.9		%		80-120	26-NOV-20
Phosphorus (P)-Total			101.2		%		70-130	26-NOV-20
Potassium (K)-Total			103.5		%		80-120	26-NOV-20
Rubidium (Rb)-Total			106.8		%		80-120	26-NOV-20
Selenium (Se)-Total			101.8		%		80-120	26-NOV-20
Silicon (Si)-Total			105.0		%		60-140	26-NOV-20
Silver (Ag)-Total			103.2		%		80-120	26-NOV-20
Sodium (Na)-Total			110.4		%		80-120	26-NOV-20
Strontium (Sr)-Total			103.1		%		80-120	26-NOV-20
Sulfur (S)-Total			105.3		%		80-120	26-NOV-20
Thallium (Tl)-Total			103.5		%		80-120	26-NOV-20
Tellurium (Te)-Total			100.2		%		80-120	26-NOV-20
Thorium (Th)-Total			100.5		%		70-130	26-NOV-20
Tin (Sn)-Total			98.5		%		80-120	26-NOV-20
Titanium (Ti)-Total			107.8		%		80-120	26-NOV-20
Tungsten (W)-Total			102.0		%		80-120	26-NOV-20
Uranium (U)-Total			103.2		%		80-120	26-NOV-20
Vanadium (V)-Total			108.2		%		80-120	26-NOV-20
Zinc (Zn)-Total			104.8		%		80-120	26-NOV-20
Zirconium (Zr)-Total			99.4		%		80-120	26-NOV-20
WG3451966-1 MB								
Aluminum (Al)-Total			<0.0050		mg/L		0.005	26-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	26-NOV-20
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	26-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	26-NOV-20
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	**Water**							
Batch R5298095								
WG3451966-1 MB								
Iron (Fe)-Total			<0.010		mg/L		0.01	26-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	26-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	26-NOV-20
Manganese (Mn)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	26-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	26-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Silicon (Si)-Total			<0.10		mg/L		0.1	26-NOV-20
Silver (Ag)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	26-NOV-20
Strontium (Sr)-Total			<0.0010		mg/L		0.001	26-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	26-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	26-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	26-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	26-NOV-20
WG3451966-5 MS		**WG3451966-3**						
Aluminum (Al)-Total			N/A	MS-B	%		-	26-NOV-20
Antimony (Sb)-Total			101.2		%		70-130	26-NOV-20
Arsenic (As)-Total			109.5		%		70-130	26-NOV-20
Barium (Ba)-Total			N/A	MS-B	%		-	26-NOV-20
Beryllium (Be)-Total			107.7		%		70-130	26-NOV-20
Bismuth (Bi)-Total			101.6		%		70-130	26-NOV-20
Boron (B)-Total			N/A	MS-B	%		-	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	**Water**							
Batch R5298095								
WG3451966-5 MS		**WG3451966-3**						
Cadmium (Cd)-Total			101.6		%		70-130	26-NOV-20
Calcium (Ca)-Total			N/A	MS-B	%		-	26-NOV-20
Chromium (Cr)-Total			103.1		%		70-130	26-NOV-20
Cesium (Cs)-Total			99.2		%		70-130	26-NOV-20
Cobalt (Co)-Total			105.1		%		70-130	26-NOV-20
Copper (Cu)-Total			106.0		%		70-130	26-NOV-20
Iron (Fe)-Total			N/A	MS-B	%		-	26-NOV-20
Lead (Pb)-Total			100.6		%		70-130	26-NOV-20
Lithium (Li)-Total			N/A	MS-B	%		-	26-NOV-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	26-NOV-20
Manganese (Mn)-Total			104.6		%		70-130	26-NOV-20
Molybdenum (Mo)-Total			N/A	MS-B	%		-	26-NOV-20
Nickel (Ni)-Total			105.3		%		70-130	26-NOV-20
Phosphorus (P)-Total			125.5		%		70-130	26-NOV-20
Potassium (K)-Total			N/A	MS-B	%		-	26-NOV-20
Rubidium (Rb)-Total			N/A	MS-B	%		-	26-NOV-20
Selenium (Se)-Total			99.8		%		70-130	26-NOV-20
Silicon (Si)-Total			N/A	MS-B	%		-	26-NOV-20
Silver (Ag)-Total			98.9		%		70-130	26-NOV-20
Sodium (Na)-Total			N/A	MS-B	%		-	26-NOV-20
Strontium (Sr)-Total			N/A	MS-B	%		-	26-NOV-20
Sulfur (S)-Total			N/A	MS-B	%		-	26-NOV-20
Thallium (Tl)-Total			102.5		%		70-130	26-NOV-20
Tellurium (Te)-Total			102.6		%		70-130	26-NOV-20
Thorium (Th)-Total			94.6		%		70-130	26-NOV-20
Tin (Sn)-Total			97.4		%		70-130	26-NOV-20
Titanium (Ti)-Total			107.9		%		70-130	26-NOV-20
Tungsten (W)-Total			102.2		%		70-130	26-NOV-20
Uranium (U)-Total			N/A	MS-B	%		-	26-NOV-20
Vanadium (V)-Total			105.5		%		70-130	26-NOV-20
Zinc (Zn)-Total			104.4		%		70-130	26-NOV-20
Zirconium (Zr)-Total			92.0		%		70-130	26-NOV-20
OGG-SPEC-WT	**Water**							

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OGG-SPEC-WT	**Water**							
Batch R5298859								
WG3451948-2 LCS								
Oil and Grease, Total			94.9		%		70-130	26-NOV-20
Mineral Oil and Grease			90.2		%		70-130	26-NOV-20
WG3451948-1 MB								
Oil and Grease, Total			<5.0		mg/L		5	26-NOV-20
Mineral Oil and Grease			<2.5		mg/L		2.5	26-NOV-20
PAH-511-WT	**Water**							
Batch R5298949								
WG3451674-2 LCS								
1-Methylnaphthalene			89.0		%		50-140	27-NOV-20
2-Methylnaphthalene			82.6		%		50-140	27-NOV-20
Acenaphthene			89.4		%		50-140	27-NOV-20
Acenaphthylene			88.7		%		50-140	27-NOV-20
Anthracene			94.7		%		50-140	27-NOV-20
Benzo(a)anthracene			101.1		%		50-140	27-NOV-20
Benzo(a)pyrene			89.0		%		50-140	27-NOV-20
Benzo(b)fluoranthene			88.2		%		50-140	27-NOV-20
Benzo(g,h,i)perylene			88.8		%		50-140	27-NOV-20
Benzo(k)fluoranthene			87.8		%		50-140	27-NOV-20
Chrysene			107.1		%		50-140	27-NOV-20
Dibenzo(ah)anthracene			90.1		%		50-140	27-NOV-20
Fluoranthene			95.0		%		50-140	27-NOV-20
Fluorene			93.4		%		50-140	27-NOV-20
Indeno(1,2,3-cd)pyrene			103.8		%		50-140	27-NOV-20
Naphthalene			80.2		%		50-140	27-NOV-20
Phenanthrene			99.8		%		50-140	27-NOV-20
Pyrene			97.0		%		50-140	27-NOV-20
WG3451674-1 MB								
1-Methylnaphthalene			<0.020		ug/L		0.02	27-NOV-20
2-Methylnaphthalene			<0.020		ug/L		0.02	27-NOV-20
Acenaphthene			<0.020		ug/L		0.02	27-NOV-20
Acenaphthylene			<0.020		ug/L		0.02	27-NOV-20
Anthracene			<0.020		ug/L		0.02	27-NOV-20
Benzo(a)anthracene			<0.020		ug/L		0.02	27-NOV-20
Benzo(a)pyrene			<0.010		ug/L		0.01	27-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Water**							
Batch R5298949								
WG3451674-1 MB								
Benzo(b)fluoranthene			<0.020		ug/L		0.02	27-NOV-20
Benzo(g,h,i)perylene			<0.020		ug/L		0.02	27-NOV-20
Benzo(k)fluoranthene			<0.020		ug/L		0.02	27-NOV-20
Chrysene			<0.020		ug/L		0.02	27-NOV-20
Dibenzo(ah)anthracene			<0.020		ug/L		0.02	27-NOV-20
Fluoranthene			<0.020		ug/L		0.02	27-NOV-20
Fluorene			<0.020		ug/L		0.02	27-NOV-20
Indeno(1,2,3-cd)pyrene			<0.020		ug/L		0.02	27-NOV-20
Naphthalene			<0.050		ug/L		0.05	27-NOV-20
Phenanthrene			<0.020		ug/L		0.02	27-NOV-20
Pyrene			<0.020		ug/L		0.02	27-NOV-20
Surrogate: d8-Naphthalene			86.5		%		60-140	27-NOV-20
Surrogate: d10-Phenanthrene			96.0		%		60-140	27-NOV-20
Surrogate: d12-Chrysene			93.2		%		60-140	27-NOV-20
Surrogate: d10-Acenaphthene			88.5		%		60-140	27-NOV-20
PH-WT	**Water**							
Batch R5298244								
WG3452155-4 DUP		**WG3452155-3**						
pH		7.80	7.76	J	pH units	0.04	0.2	26-NOV-20
WG3452155-2 LCS								
pH			7.05		pH units		6.9-7.1	26-NOV-20
Batch R5299316								
WG3452156-4 DUP		**WG3452156-3**						
pH		8.28	8.26	J	pH units	0.02	0.2	26-NOV-20
WG3452156-2 LCS								
pH			7.01		pH units		6.9-7.1	26-NOV-20
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-4 DUP		**WG3453379-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-4 DUP		**WG3453379-3**						
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	30-NOV-20
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	30-NOV-20
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-20
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-20
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	30-NOV-20
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	30-NOV-20
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-20
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-20
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-20
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	30-NOV-20
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	30-NOV-20
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	30-NOV-20
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-20
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-20
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-20
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-20
Trichloroethylene		<0.50	<0.50		ug/L			30-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-4 DUP		**WG3453379-3**						
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-20
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
WG3453379-1 LCS								
1,1,1,2-Tetrachloroethane			89.1		%		70-130	30-NOV-20
1,1,2,2-Tetrachloroethane			74.2		%		70-130	30-NOV-20
1,1,1-Trichloroethane			100.5		%		70-130	30-NOV-20
1,1,2-Trichloroethane			83.8		%		70-130	30-NOV-20
1,1-Dichloroethane			90.6		%		70-130	30-NOV-20
1,1-Dichloroethylene			100.8		%		70-130	30-NOV-20
1,2-Dibromoethane			82.0		%		70-130	30-NOV-20
1,2-Dichlorobenzene			97.6		%		70-130	30-NOV-20
1,2-Dichloroethane			88.0		%		70-130	30-NOV-20
1,2-Dichloropropane			86.1		%		70-130	30-NOV-20
1,3-Dichlorobenzene			106.1		%		70-130	30-NOV-20
1,4-Dichlorobenzene			104.9		%		70-130	30-NOV-20
Acetone			86.0		%		60-140	30-NOV-20
Benzene			89.9		%		70-130	30-NOV-20
Bromodichloromethane			96.9		%		70-130	30-NOV-20
Bromoform			90.3		%		70-130	30-NOV-20
Bromomethane			83.2		%		60-140	30-NOV-20
Carbon tetrachloride			106.5		%		70-130	30-NOV-20
Chlorobenzene			93.9		%		70-130	30-NOV-20
Chloroform			94.9		%		70-130	30-NOV-20
cis-1,2-Dichloroethylene			90.5		%		70-130	30-NOV-20
cis-1,3-Dichloropropene			91.5		%		70-130	30-NOV-20
Dibromochloromethane			86.5		%		70-130	30-NOV-20
Dichlorodifluoromethane			71.6		%		50-140	30-NOV-20
Ethylbenzene			100.0		%		70-130	30-NOV-20
n-Hexane			97.9		%		70-130	30-NOV-20
m+p-Xylenes			100.9		%		70-130	30-NOV-20
Methyl Ethyl Ketone			63.0		%		60-140	30-NOV-20
Methyl Isobutyl Ketone			75.9		%		60-140	30-NOV-20
Methylene Chloride			90.0				70-130	

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-1 LCS								
Methylene Chloride			90.0		%		70-130	30-NOV-20
MTBE			97.4		%		70-130	30-NOV-20
o-Xylene			104.5		%		70-130	30-NOV-20
Styrene			91.0		%		70-130	30-NOV-20
Tetrachloroethylene			105.4		%		70-130	30-NOV-20
Toluene			97.4		%		70-130	30-NOV-20
trans-1,2-Dichloroethylene			101.9		%		70-130	30-NOV-20
trans-1,3-Dichloropropene			92.4		%		70-130	30-NOV-20
Trichloroethylene			100.7		%		70-130	30-NOV-20
Trichlorofluoromethane			99.5		%		60-140	30-NOV-20
Vinyl chloride			89.3		%		60-140	30-NOV-20
WG3453379-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	30-NOV-20
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	30-NOV-20
1,1,1-Trichloroethane			<0.50		ug/L		0.5	30-NOV-20
1,1,2-Trichloroethane			<0.50		ug/L		0.5	30-NOV-20
1,1-Dichloroethane			<0.50		ug/L		0.5	30-NOV-20
1,1-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-20
1,2-Dibromoethane			<0.20		ug/L		0.2	30-NOV-20
1,2-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-20
1,2-Dichloroethane			<0.50		ug/L		0.5	30-NOV-20
1,2-Dichloropropane			<0.50		ug/L		0.5	30-NOV-20
1,3-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-20
1,4-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-20
Acetone			<30		ug/L		30	30-NOV-20
Benzene			<0.50		ug/L		0.5	30-NOV-20
Bromodichloromethane			<2.0		ug/L		2	30-NOV-20
Bromoform			<5.0		ug/L		5	30-NOV-20
Bromomethane			<0.50		ug/L		0.5	30-NOV-20
Carbon tetrachloride			<0.20		ug/L		0.2	30-NOV-20
Chlorobenzene			<0.50		ug/L		0.5	30-NOV-20
Chloroform			<1.0		ug/L		1	30-NOV-20
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-20
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	30-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-2 MB								
Dibromochloromethane			<2.0		ug/L		2	30-NOV-20
Dichlorodifluoromethane			<2.0		ug/L		2	30-NOV-20
Ethylbenzene			<0.50		ug/L		0.5	30-NOV-20
n-Hexane			<0.50		ug/L		0.5	30-NOV-20
m+p-Xylenes			<0.40		ug/L		0.4	30-NOV-20
Methyl Ethyl Ketone			<20		ug/L		20	30-NOV-20
Methyl Isobutyl Ketone			<20		ug/L		20	30-NOV-20
Methylene Chloride			<5.0		ug/L		5	30-NOV-20
MTBE			<2.0		ug/L		2	30-NOV-20
o-Xylene			<0.30		ug/L		0.3	30-NOV-20
Styrene			<0.50		ug/L		0.5	30-NOV-20
Tetrachloroethylene			<0.50		ug/L		0.5	30-NOV-20
Toluene			<0.50		ug/L		0.5	30-NOV-20
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-20
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	30-NOV-20
Trichloroethylene			<0.50		ug/L		0.5	30-NOV-20
Trichlorofluoromethane			<5.0		ug/L		5	30-NOV-20
Vinyl chloride			<0.50		ug/L		0.5	30-NOV-20
Surrogate: 1,4-Difluorobenzene			101.1		%		70-130	30-NOV-20
Surrogate: 4-Bromofluorobenzene			100.4		%		70-130	30-NOV-20
WG3453379-5 MS		**WG3453379-3**						
1,1,1,2-Tetrachloroethane			90.2		%		50-140	30-NOV-20
1,1,2,2-Tetrachloroethane			83.2		%		50-140	30-NOV-20
1,1,1-Trichloroethane			96.2		%		50-140	30-NOV-20
1,1,2-Trichloroethane			89.5		%		50-140	30-NOV-20
1,1-Dichloroethane			91.7		%		50-140	30-NOV-20
1,1-Dichloroethylene			95.8		%		50-140	30-NOV-20
1,2-Dibromoethane			88.0		%		50-140	30-NOV-20
1,2-Dichlorobenzene			97.5		%		50-140	30-NOV-20
1,2-Dichloroethane			96.3		%		50-140	30-NOV-20
1,2-Dichloropropane			91.1		%		50-140	30-NOV-20
1,3-Dichlorobenzene			102.1		%		50-140	30-NOV-20
1,4-Dichlorobenzene			101.8		%		50-140	30-NOV-20
Acetone			101.0		%		50-140	30-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-5 MS		**WG3453379-3**						
Benzene			91.0		%		50-140	30-NOV-20
Bromodichloromethane			102.1		%		50-140	30-NOV-20
Bromoform			96.9		%		50-140	30-NOV-20
Bromomethane			78.5		%		50-140	30-NOV-20
Carbon tetrachloride			101.9		%		50-140	30-NOV-20
Chlorobenzene			93.3		%		50-140	30-NOV-20
Chloroform			96.9		%		50-140	30-NOV-20
cis-1,2-Dichloroethylene			91.7		%		50-140	30-NOV-20
cis-1,3-Dichloropropene			92.8		%		50-140	30-NOV-20
Dibromochloromethane			89.8		%		50-140	30-NOV-20
Dichlorodifluoromethane			59.9		%		50-140	30-NOV-20
Ethylbenzene			95.7		%		50-140	30-NOV-20
n-Hexane			90.2		%		50-140	30-NOV-20
m+p-Xylenes			96.5		%		50-140	30-NOV-20
Methyl Ethyl Ketone			78.1		%		50-140	30-NOV-20
Methyl Isobutyl Ketone			90.8		%		50-140	30-NOV-20
Methylene Chloride			92.3		%		50-140	30-NOV-20
MTBE			97.6		%		50-140	30-NOV-20
o-Xylene			102.6		%		50-140	30-NOV-20
Styrene			90.6		%		50-140	30-NOV-20
Tetrachloroethylene			96.3		%		50-140	30-NOV-20
Toluene			94.6		%		50-140	30-NOV-20
trans-1,2-Dichloroethylene			97.8		%		50-140	30-NOV-20
trans-1,3-Dichloropropene			91.3		%		50-140	30-NOV-20
Trichloroethylene			97.2		%		50-140	30-NOV-20
Trichlorofluoromethane			91.6		%		50-140	30-NOV-20
Vinyl chloride			81.3		%		50-140	30-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2
Contact: Laura Ermeta

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

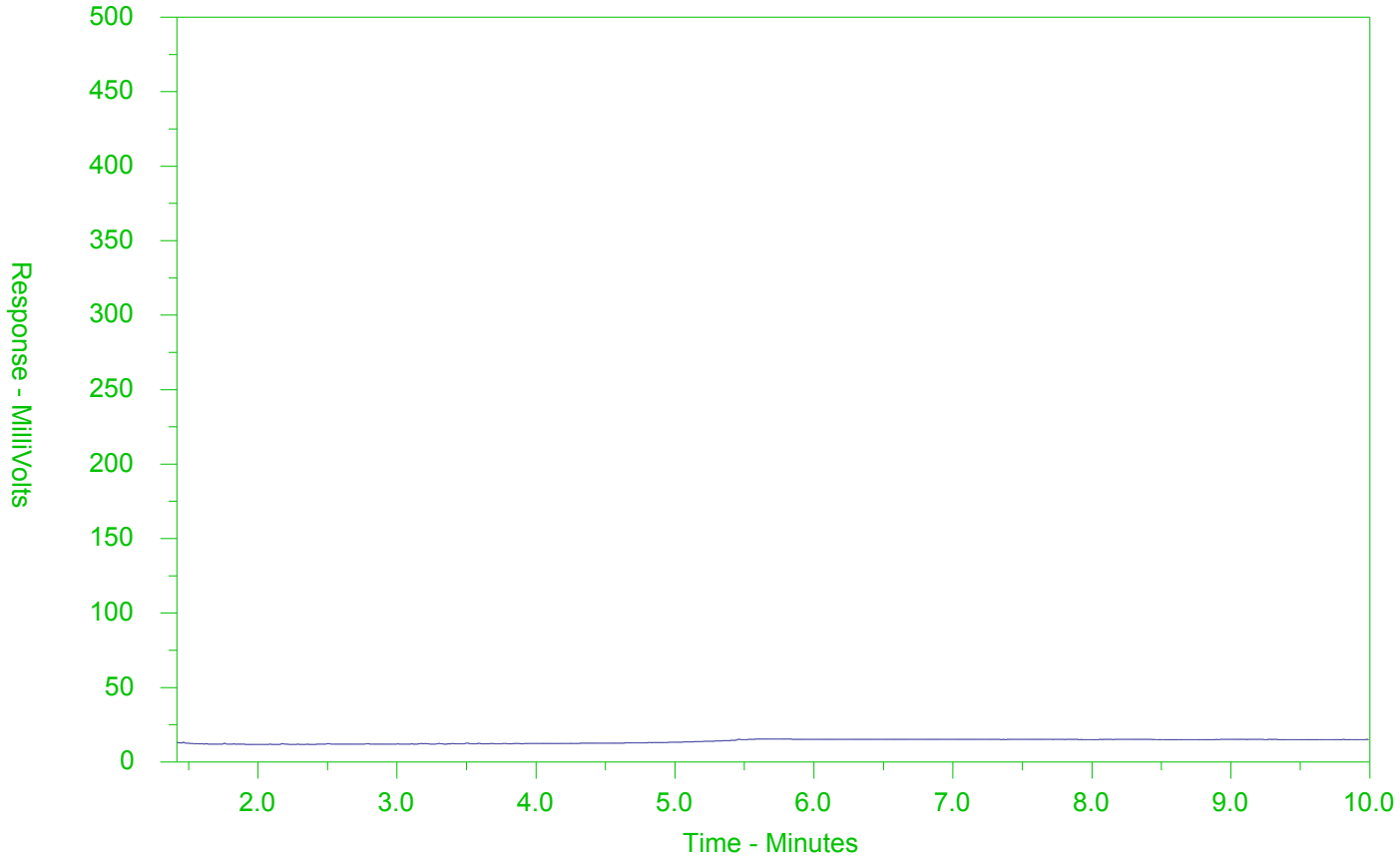
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2533335-1
Client Sample ID: GW-11210029-112420-MW-2



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

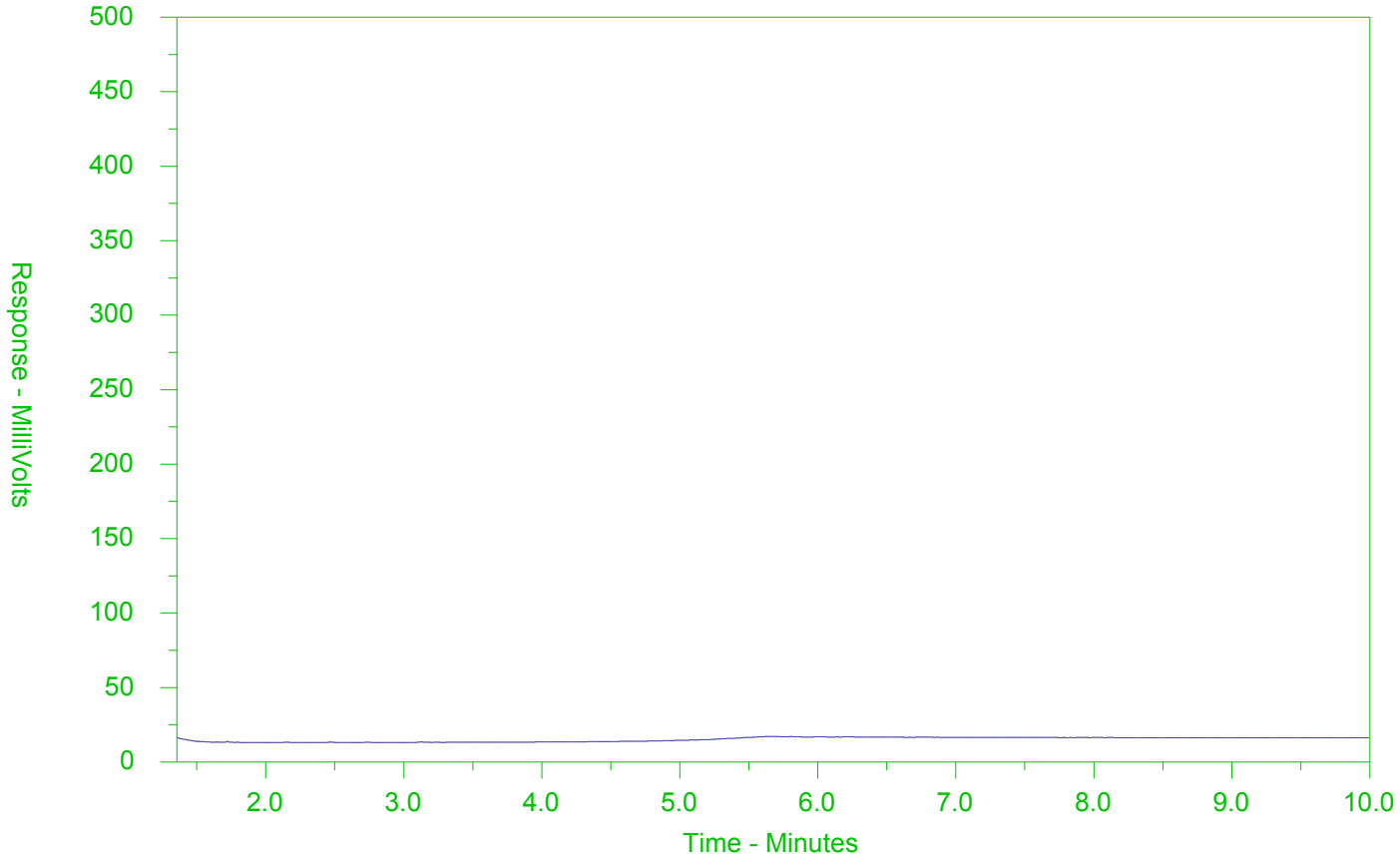
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2533335-2
Client Sample ID: GW-11210029-112420-MW-2D



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

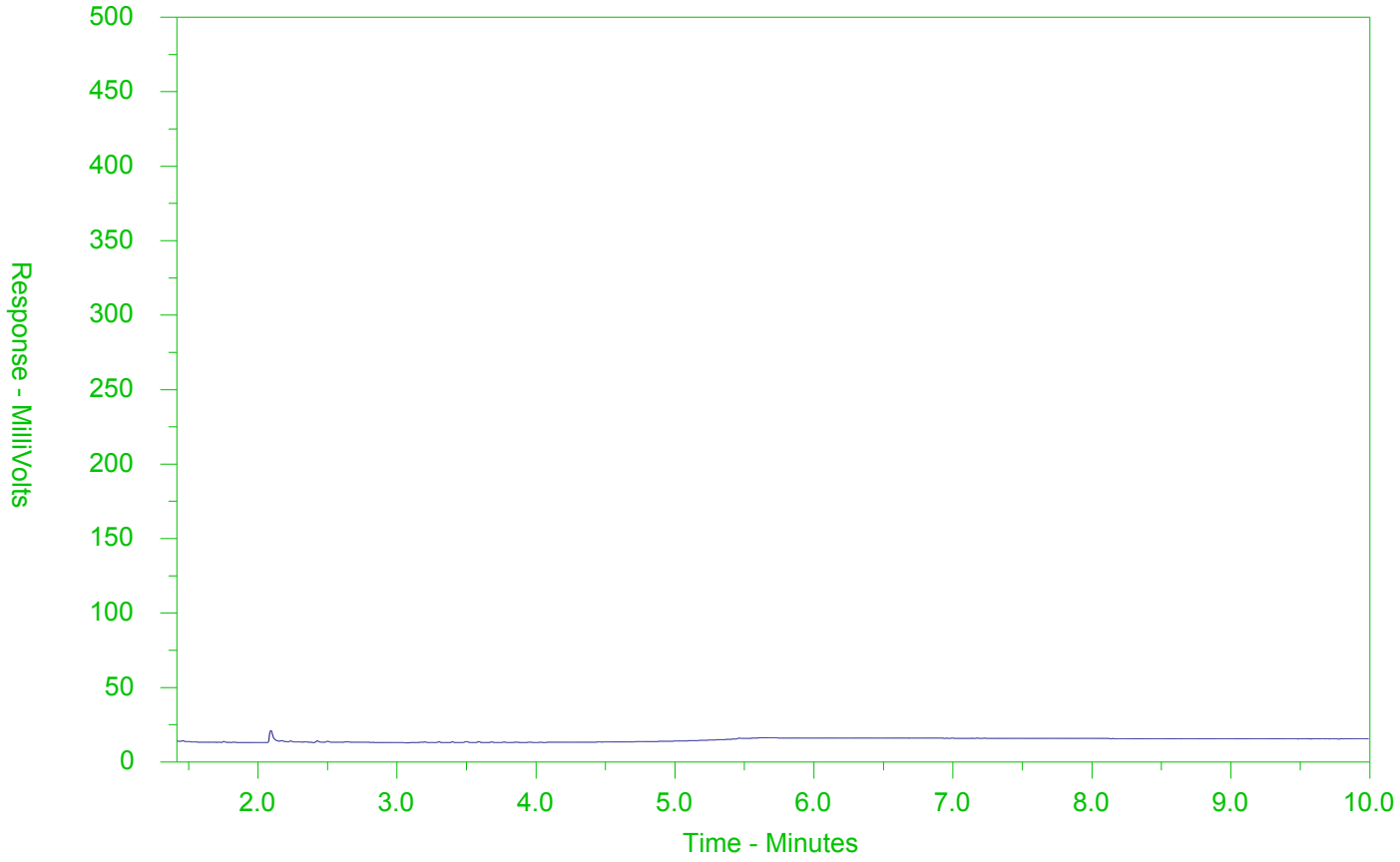
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2533335-3
Client Sample ID: GW-11210029-112420-MW-3



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

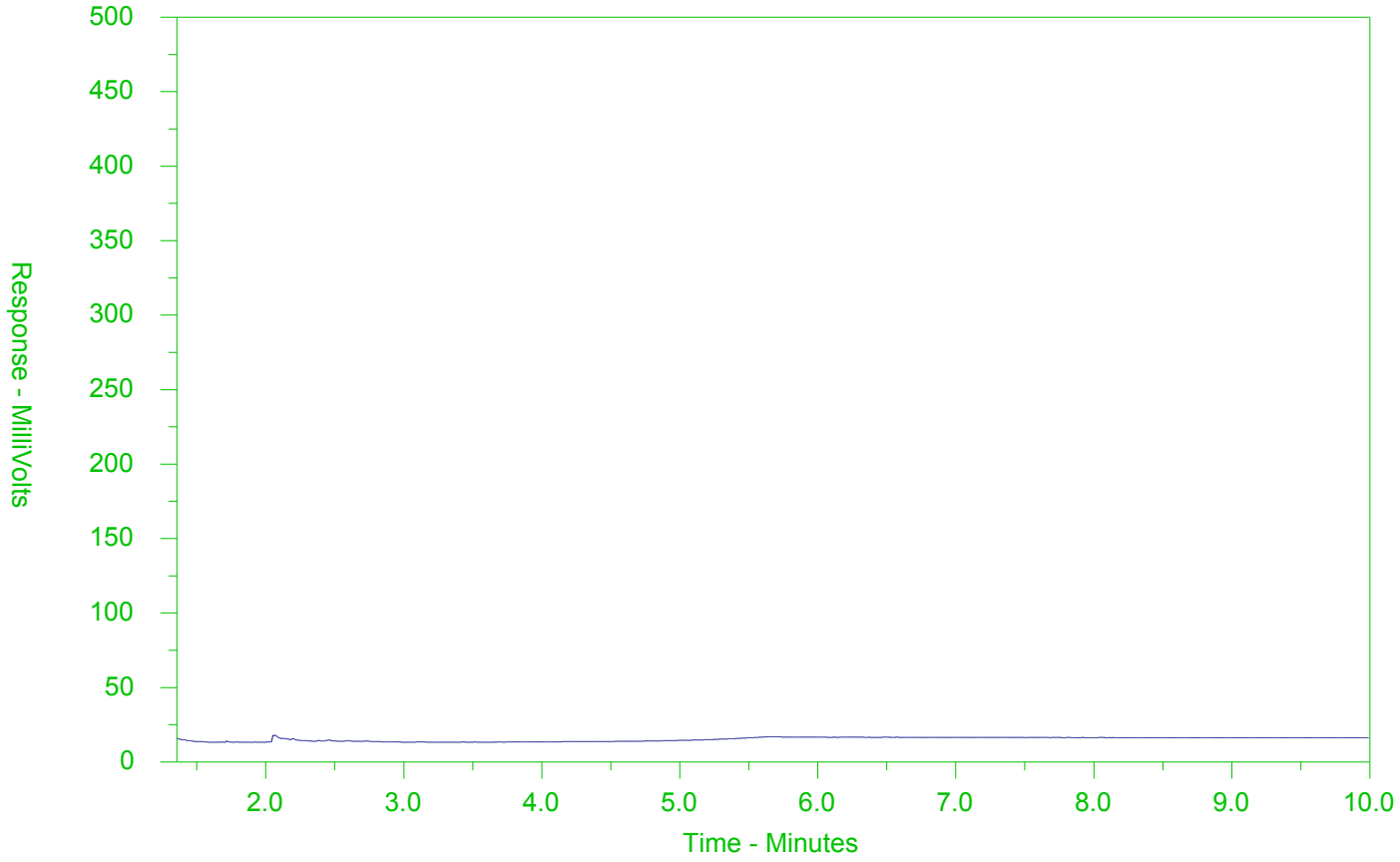
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2533335-4
Client Sample ID: GW-11210029-112520-MW-1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

ALS Environmental

www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2533335-COFC

COC Number: 17 - 871527

Page of

Report To	Contact and company name below will appear on the final report
Company:	GHD
Contact:	Jon Balkwill
Phone:	
Company address below will appear on the final report	
Street:	455 Philip St
City/Province:	Waterloo ON
Postal Code:	
Invoice To	Same as Report To [X] YES [ ] NO
	Copy of Invoice with Report [ ] YES [ ] NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: [X] PDF [X] EXCEL [ ] EDD (DIGITAL)

Quality Control (QC) Report with Report [ ] YES [ ] NO

[ ] Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: [ ] EMAIL [ ] MAIL [ ] FAX

Email 1 or Fax: Jennifer.Balkwill@ghd.com

Email 2: Gary.Lagos@ghd.com

Email 3: Amalia.Solata@ghd.com

Invoice Distribution

Select Invoice Distribution: [ ] EMAIL [ ] MAIL [ ] FAX

Email 1 or Fax

Email 2

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]

EMERGENCY: 1 Business day [E - 100%] [ ]; Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] [ ]

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #: 13791

Job #: 11210029 - 02 - WATER

PO / AFE:

LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#

Major/Minor Code: Routing Code:

Requisitioner:

Location:

ALS Contact: Sampler:

ALS Lab Work Order # (lab use only): L2533335 MM

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	VOC, F1 (P)	Total Metals (P)	Dissolved Metals (F/P)	Total Hg (P)	Dissolved Hg (F/P)	Dissolved Cr6 (F/P)	CN (P)	SVOC	PAH F2-F4 (P)	EC, pH, CL	Oil & Grease (P)	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	GW-11210029-112420-MW-2	24-Nov-20	11:25	GW	15	x												
	-2D	"	11:30		15	x												
	-3	"	13:45		15	x												
	-1	25-Nov-20	11:20		15	x												
	Trip Blank	"	12:00		2	x												

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? [ ] YES [X] NO

Are samples for human consumption/ use? [ ] YES [X] NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen [ ] SIF Observations Yes [ ] No [ ]

Ice Packs [ ] Ice Cubes [X] Custody seal intact Yes [ ] No [ ]

Cooling Initiated [ ]

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				2.9	3.3		

SHIPMENT RELEASE (client use)

Released by: [redacted] Date: 11-25-2020 Time: 1255

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: [redacted] Date: Nov 25/20 Time: 1300

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 FRONT

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2311183**	Page	: 1 of 40
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 28-Apr-2023 17:00
PO	: 73522487	Date Analysis Commenced	: 01-May-2023
C-O-C number	: ----	Issue Date	: 08-May-2023 22:45
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*
RRV	*Reported result verified by repeat analysis.*

Analytical Results

WT2311183-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AppWell
Client sampling date / time: 28-Apr-2023 09:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.28	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00609	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.0745	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.012	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	48.3	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	0.216	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	0.0032	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	27.8	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.00743	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	01-May-2023	01-May-2023	917216
Molybdenum, dissolved	7439-98-7	0.000690	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	1.01	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00031	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	0.000240	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	7.65	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	6.12	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.304	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	7.79	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000597	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0011	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	01-May-2023	917216
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829

Analytical Results

WT2311183-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AppWell
Client sampling date / time: 28-Apr-2023 09:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AppWell
Client sampling date / time: 28-Apr-2023 09:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
BTEX, total	----	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	04-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	04-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F1-BTEX	----	<25	25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	04-May-2023	916857
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.1	1.0	%	E601.SG	01-May-2023	04-May-2023	916857
Dichlorotoluene, 3,4-	95-75-0	104	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.5	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	99.4	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	04-May-2023	916856
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	04-May-2023	916856
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A	01-May-2023	04-May-2023	916856
Naphthalene-d8	1146-65-2	99.1	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phenanthrene-d10	1517-22-2	102	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	05-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	05-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	05-May-2023	921266
Semi-Volatile Organics								

Analytical Results

WT2311183-001

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: AppWell

Client sampling date / time: 28-Apr-2023 09:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	05-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	83.4	1.0	%	E655A	03-May-2023	05-May-2023	921266
Nitrobenzene-d5	4165-60-0	88.1	1.0	%	E655A	03-May-2023	05-May-2023	921266
Terphenyl-d14, p-	1718-51-0	103	1.0	%	E655A	03-May-2023	05-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	05-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	05-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	05-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	05-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	05-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	05-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	05-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	05-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	85.1	0.20	%	E655A	03-May-2023	05-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 28-Apr-2023 09:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	41.2	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.289	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00037	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.108	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Apr-2023 09:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Boron, dissolved	7440-42-8	0.026	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.0000651	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	151	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	0.000015	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	0.00080	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	0.00029	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00187	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	0.268	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	0.00116	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	0.0022	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	41.5	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.0381	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	0.000429	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	0.00087	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	0.054	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	11.9	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00066	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	0.000403	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	5.79	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	23.9	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.190	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	18.3	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	0.000015	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	0.00017	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	0.0107	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000539	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	0.00083	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0142	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	0.00050	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Apr-2023 09:50

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Carbon tetrachloride	56-23-5	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	04-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	04-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-

Analytical Results

WT2311183-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Apr-2023 09:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	04-May-2023	916857
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	82.0	1.0	%	E601.SG	01-May-2023	04-May-2023	916857
Dichlorotoluene, 3,4-	95-75-0	82.1	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	90.9	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	99.1	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(b+j)fluoranthene	n/a	0.012	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(g,h,i)perylene	191-24-2	0.072	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Indeno(1,2,3-c,d)pyrene	193-39-5	0.062	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1-	90-12-0	0.017	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1+2-	----	0.039	0.015	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 2-	91-57-6	0.022	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	04-May-2023	916856
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	04-May-2023	916856
Pyrene	129-00-0	0.018	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	98.8	0.1	%	E641A	01-May-2023	04-May-2023	916856
Naphthalene-d8	1146-65-2	104	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266

Analytical Results

WT2311183-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Apr-2023 09:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	93.3	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	95.6	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	96.5	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	97.1	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	19.4 DLDS,	2.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0110 DLHC,	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00100 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00110 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.127 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000200 DLHC,	0.000200	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.151 DLHC,	0.100	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.000192 DLHC,	0.0000500	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	123 DLHC,	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000100 DLHC,	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00500 DLHC,	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00100 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.0264 DLHC,	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.100 DLHC,	0.100	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	<0.0100 DLHC,	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals									
Magnesium, dissolved	7439-95-4	48.1	DLHC.	0.0500	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.144	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	<0.000500	DLHC.	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	0.00892	DLHC.	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.500	DLHC.	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	109	DLHC.	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.0209	DLHC.	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	<0.000500	DLHC.	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	4.69	DLHC.	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000100	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	13.8	DLHC.	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.175	DLHC.	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	10.8	DLHC.	5.00	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00200	DLHC.	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	0.000122	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00300	DLHC.	0.00300	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000706	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00500	DLHC.	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0473	DLHC.	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00300	DLHC.	0.00300	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field		-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field		-	-	EP421	-	01-May-2023	916829
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	04-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	04-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG	01-May-2023	04-May-2023	916857
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.6		1.0	%	E601.SG	01-May-2023	04-May-2023	916857
Dichlorotoluene, 3,4-	95-75-0	82.1		1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	91.1		1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	99.4		1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856

Analytical Results

WT2311183-003

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW2-20

Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(g,h,i)perylene	191-24-2	0.019	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Indeno(1,2,3-c,d)pyrene	193-39-5	0.014	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	04-May-2023	916856
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	04-May-2023	916856
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	101	0.1	%	E641A	01-May-2023	04-May-2023	916856
Naphthalene-d8	1146-65-2	98.2	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phenanthrene-d10	1517-22-2	99.6	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	82.4	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	89.0	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	100	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266

Analytical Results

WT2311183-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	92.6	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: Dup
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	19.3 DLDS,	2.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0106 DLHC,	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00100 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00107 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.136 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000200 DLHC,	0.000200	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.153 DLHC,	0.100	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.000187 DLHC,	0.0000500	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	130 DLHC,	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000100 DLHC,	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00500 DLHC,	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00100 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.0277 DLHC,	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.100 DLHC,	0.100	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	<0.0100 DLHC,	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	47.8 DLHC,	0.0500	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.152 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	0.00920 DLHC,	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.500 DLHC,	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	111 DLHC,	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.0210 DLHC,	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	4.91 DLHC,	0.500	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: Dup
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals									
Silver, dissolved	7440-22-4	<0.000100	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	14.0	DLHC.	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.183	DLHC.	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	11.2	DLHC.	5.00	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00200	DLHC.	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	0.000131	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00300	DLHC.	0.00300	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000744	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00500	DLHC.	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0486	DLHC.	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00300	DLHC.	0.00300	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field		-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field		-	-	EP421	-	01-May-2023	916829
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: Dup
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Hexane, n-	110-54-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	04-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	04-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG	01-May-2023	04-May-2023	916857
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.3		1.0	%	E601.SG	01-May-2023	04-May-2023	916857
Dichlorotoluene, 3,4-	95-75-0	83.8		1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	90.7		1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	98.9		1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Acenaphthylene	208-96-8	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Anthracene	120-12-7	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benz(a)anthracene	56-55-3	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(a)pyrene	50-32-8	<0.0050		0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(b+j)fluoranthene	n/a	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(g,h,i)perylene	191-24-2	0.011		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(k)fluoranthene	207-08-9	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Chrysene	218-01-9	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Dibenz(a,h)anthracene	53-70-3	<0.0050		0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluoranthene	206-44-0	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856

Analytical Results

WT2311183-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: Dup
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1-	90-12-0	0.023	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1+2-	----	0.053	0.015	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 2-	91-57-6	0.030	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	04-May-2023	916856
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	04-May-2023	916856
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	101	0.1	%	E641A	01-May-2023	04-May-2023	916856
Naphthalene-d8	1146-65-2	104	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phenanthrene-d10	1517-22-2	106	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	88.0	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	93.9	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	98.8	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	96.1	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AgWell
Client sampling date / time: 28-Apr-2023 11:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	17.9	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00534	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.0541	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	70.2	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00204	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	0.499	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	0.0042	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	36.7	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.0116	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	0.000498	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	1.06	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00022	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	9.63	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	7.49	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.138	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	17.0	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000193	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0090	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829

Analytical Results

WT2311183-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AgWell
Client sampling date / time: 28-Apr-2023 11:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AgWell
Client sampling date / time: 28-Apr-2023 11:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
BTEX, total	----	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	04-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	04-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F1-BTEX	----	<25	25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	04-May-2023	916857
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	77.1	1.0	%	E601.SG	01-May-2023	04-May-2023	916857
Dichlorotoluene, 3,4-	95-75-0	101	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	90.8	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	99.0	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	04-May-2023	916856
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	04-May-2023	916856
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A	01-May-2023	04-May-2023	916856
Naphthalene-d8	1146-65-2	96.5	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phenanthrene-d10	1517-22-2	99.5	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								

Analytical Results

WT2311183-005

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: AgWell

Client sampling date / time: 28-Apr-2023 11:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.7	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	93.8	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	96.8	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	92.6	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-006

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW3-20

Client sampling date / time: 28-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	6.64	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0016	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00022	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.0496	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 28-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Boron, dissolved	7440-42-8	0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	106	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00045	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	0.0030	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	45.5	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.00883	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	0.000320	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	1.04	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00055	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	0.000058	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	7.31	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	4.75	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.143	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	6.10	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000824	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	0.00051	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 28-Apr-2023 12:25

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Carbon tetrachloride	56-23-5	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	03-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	03-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-

Analytical Results

WT2311183-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 28-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	03-May-2023	916864
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.1	1.0	%	E601.SG	01-May-2023	03-May-2023	916864
Dichlorotoluene, 3,4-	95-75-0	65.5	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	89.9	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	98.7	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benz(a)anthracene	56-55-3	<0.045 DLM,	0.045	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(a)pyrene	50-32-8	<0.0175 DLM,	0.0175	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(b+j)fluoranthene	n/a	0.219	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(g,h,i)perylene	191-24-2	0.121	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(k)fluoranthene	207-08-9	0.075	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Chrysene	218-01-9	<0.168 DLM,	0.168	µg/L	E641A	01-May-2023	03-May-2023	916865
Dibenz(a,h)anthracene	53-70-3	0.0080	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluoranthene	206-44-0	0.053	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Indeno(1,2,3-c,d)pyrene	193-39-5	0.152	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1-	90-12-0	0.035	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1+2-	----	0.077	0.015	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 2-	91-57-6	0.042	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	03-May-2023	916865
Phenanthrene	85-01-8	0.030	0.020	µg/L	E641A	01-May-2023	03-May-2023	916865
Pyrene	129-00-0	0.131	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	93.6	0.1	%	E641A	01-May-2023	03-May-2023	916865
Naphthalene-d8	1146-65-2	103	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266

Analytical Results

WT2311183-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 28-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.8	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	91.8	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	93.7	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	89.4	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH-213
Client sampling date / time: 28-Apr-2023 13:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	8.58	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0018	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00042	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.0284	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.014	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.0000240	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	60.2	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	0.00117	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00098	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	0.000088	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-007

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH-213

Client sampling date / time: 28-Apr-2023 13:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Magnesium, dissolved	7439-95-4	20.8	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.644	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	0.000989	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	0.00282	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	2.74	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00104	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	3.34	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	3.06	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.0913	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	1.35	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	0.000062	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000242	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0096	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20 OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20 OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-213
Client sampling date / time: 28-Apr-2023 13:15

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	03-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	03-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG	01-May-2023	03-May-2023	916864
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	82.8		1.0	%	E601.SG	01-May-2023	03-May-2023	916864
Dichlorotoluene, 3,4-	95-75-0	92.5		1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	90.2		1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	98.8		1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865

Analytical Results

WT2311183-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-213
Client sampling date / time: 28-Apr-2023 13:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	03-May-2023	916865
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	03-May-2023	916865
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	92.8	0.1	%	E641A	01-May-2023	03-May-2023	916865
Naphthalene-d8	1146-65-2	99.6	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phenanthrene-d10	1517-22-2	99.3	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	88.1	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	95.2	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	102	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266

Analytical Results

WT2311183-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH-213
Client sampling date / time: 28-Apr-2023 13:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	95.2	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-008

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH-219
Client sampling date / time: 28-Apr-2023 01:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.58	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0012	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00012	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.190	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.016	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.0000387	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	127	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00071	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	0.000074	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	0.0030	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	50.8	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.00091	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	0.000215	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	1.64	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00125	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	0.000382	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	7.72	0.050	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-008

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH-219

Client sampling date / time: 28-Apr-2023 01:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	4.26	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.163	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	13.5	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000990	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0214	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20 OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20 OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0 OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-219
Client sampling date / time: 28-Apr-2023 01:05

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Hexane, n-	110-54-3	0.59	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	03-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	03-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG	01-May-2023	03-May-2023	916864
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	81.1		1.0	%	E601.SG	01-May-2023	03-May-2023	916864
Dichlorotoluene, 3,4-	95-75-0	88.3		1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	90.0		1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	98.7		1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Acenaphthylene	208-96-8	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Anthracene	120-12-7	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benz(a)anthracene	56-55-3	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(a)pyrene	50-32-8	<0.0050		0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(b+j)fluoranthene	n/a	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(g,h,i)perylene	191-24-2	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(k)fluoranthene	207-08-9	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Chrysene	218-01-9	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Dibenz(a,h)anthracene	53-70-3	<0.0050		0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluoranthene	206-44-0	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865

Analytical Results

WT2311183-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-219
Client sampling date / time: 28-Apr-2023 01:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1-	90-12-0	0.028	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1+2-	----	0.061	0.015	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 2-	91-57-6	0.033	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	03-May-2023	916865
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	03-May-2023	916865
Pyrene	129-00-0	0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	98.2	0.1	%	E641A	01-May-2023	03-May-2023	916865
Naphthalene-d8	1146-65-2	106	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phenanthrene-d10	1517-22-2	105	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	79.1	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	84.7	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	87.0	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	82.1	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-214
Client sampling date / time: 28-Apr-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	6.96	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0011	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00011	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.0462	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.0000484	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	149	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00075	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	0.000098	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	55.2	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.00042	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	0.962	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00100	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	0.000332	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	5.07	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	3.63	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.141	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	5.25	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000320	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0108	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829

Analytical Results

WT2311183-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-214
Client sampling date / time: 28-Apr-2023 14:50

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-214
Client sampling date / time: 28-Apr-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
BTEX, total	----	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	03-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	03-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F1-BTEX	----	<25	25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	03-May-2023	916864
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.8	1.0	%	E601.SG	01-May-2023	03-May-2023	916864
Dichlorotoluene, 3,4-	95-75-0	81.2	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	89.7	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	98.4	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1-	90-12-0	0.031	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1+2-	----	0.071	0.015	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 2-	91-57-6	0.040	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	03-May-2023	916865
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	03-May-2023	916865
Pyrene	129-00-0	0.012	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	94.1	0.1	%	E641A	01-May-2023	03-May-2023	916865
Naphthalene-d8	1146-65-2	106	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phenanthrene-d10	1517-22-2	105	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								

Analytical Results

WT2311183-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH-214

Client sampling date / time: 28-Apr-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.4	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	91.5	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	104	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	87.8	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 28-Apr-2023 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 28-Apr-2023 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	<0.0050	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	0.156 RRV.	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	0.00012 RRV.	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 28-Apr-2023 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	0.82	0.50	µg/L	E611D	01-May-2023	02-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	03-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	03-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-

Analytical Results

WT2311183-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 28-Apr-2023 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	03-May-2023	916864
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.9	1.0	%	E601.SG	01-May-2023	03-May-2023	916864
Dichlorotoluene, 3,4-	95-75-0	105	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.9	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	99.6	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	03-May-2023	916865
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	03-May-2023	916865
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	98.4	0.1	%	E641A	01-May-2023	03-May-2023	916865
Naphthalene-d8	1146-65-2	108	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phenanthrene-d10	1517-22-2	107	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266

Analytical Results

WT2311183-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 28-Apr-2023 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	81.6	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	88.0	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	94.2	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	82.3	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

ALS Canada Ltd.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2311183**	Page	: 1 of 24
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 28-Apr-2023 17:00
PO	: 73522487	Issue Date	: 08-May-2023 22:46
C-O-C number	: ----		
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Matrix Spike outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Non-Chlorinated Phenolics	QC-MRG2-921266002	----	Dinitrophenol, 2,4-	51-28-5	E655A	152 % LCS-H	50.0-140%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	*Description*
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AgWell	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AppWell	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH-213	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH-214	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) Dup	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) FB	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW1-20	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW2-20	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW3-20	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH-219	E567	28-Apr-2023	08-May-2023	28 days	11 days	✓	08-May-2023	40 days	0 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] AgWell	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] AppWell	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH-213	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH-214	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] Dup	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] FB	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW1-20	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW2-20	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW3-20	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
BH-219	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AgWell	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-213	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-214	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
Dup	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW2-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-219	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AppWell	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	05-May-2023	40 days	2 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
AgWell	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
AppWell	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
BH-213	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
BH-214	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times: Rec	Holding Times: Actual	Eval	Analysis: Analysis Date	Holding Times: Rec	Holding Times: Actual	Eval
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
Dup	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
FB	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
MW1-20	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
MW2-20	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
MW3-20	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
BH-219	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
AppWell	E509	28-Apr-2023	01-May-2023	----	----		01-May-2023	28 days	3 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
AgWell	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
BH-213	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis: Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
BH-214	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
BH-219	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
Dup	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
FB	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW1-20	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW2-20	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW3-20	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
AgWell	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
AppWell	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
BH-213	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
BH-214	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
BH-219	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
Dup	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
FB	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW1-20	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW2-20	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW3-20	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
AgWell	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓

Matrix: **Water**

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Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) AppWell	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) BH-213	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) BH-214	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) BH-219	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) Dup	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) FB	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW1-20	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW2-20	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW3-20	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
BH-213	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	03-May-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
BH-214	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	03-May-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
BH-219	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	03-May-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
FB	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	03-May-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	03-May-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
AgWell	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	04-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
AppWell	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	04-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
Dup	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	04-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	04-May-2023	40 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP] MW2-20	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	04-May-2023	40 days	3 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] AgWell	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH-213	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH-214	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] Dup	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] FB	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW2-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW3-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH-219	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AppWell	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	05-May-2023	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AgWell	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-213	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-214	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
Dup	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW2-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-219	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AppWell	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	05-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-213	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	03-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-214	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	03-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-219	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	03-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	03-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	03-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AgWell	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	04-May-2023	40 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP] AppWell	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	04-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP] Dup	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	04-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW1-20	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	04-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW2-20	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	04-May-2023	40 days	3 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] AgWell	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH-213	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH-214	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] Dup	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] FB	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW2-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-219	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AppWell	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	05-May-2023	40 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AgWell	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AppWell	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH-213	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH-214	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis: Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH-219	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
Dup	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
FB	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW1-20	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW2-20	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW3-20	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
AgWell	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
AppWell	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH-213	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) BH-214	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) BH-219	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) Dup	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) FB	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW1-20	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW2-20	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW3-20	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	916860	1	11	9.0	5.0	✓
Chloride in Water by IC	E235.Cl	918756	1	11	9.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	916929	1	19	5.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	917216	2	33	6.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	916829	1	18	5.5	5.0	✓
Total Cyanide	E333	917621	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	916859	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
BNA (ON 625-511 list) by GC-MS	E655A	921266	1	13	7.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	916860	1	11	9.0	5.0	✓
Chloride in Water by IC	E235.Cl	918756	1	11	9.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	916929	1	19	5.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	917216	2	33	6.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	916829	1	18	5.5	5.0	✓
Oil & Grease by Gravimetry	E567	926273	1	18	5.5	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	916856	2	23	8.7	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	916857	2	30	6.6	5.0	✓
Total Cyanide	E333	917621	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	916859	1	20	5.0	5.0	✓
Method Blanks (MB)							
BNA (ON 625-511 list) by GC-MS	E655A	921266	1	13	7.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	916860	1	11	9.0	5.0	✓
Chloride in Water by IC	E235.Cl	918756	1	11	9.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	916929	1	19	5.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	917216	2	33	6.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	916829	1	18	5.5	5.0	✓
Oil & Grease by Gravimetry	E567	926273	1	18	5.5	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	916856	2	23	8.7	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	916857	2	30	6.6	5.0	✓
Total Cyanide	E333	917621	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	916859	1	20	5.0	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	916860	1	11	9.0	5.0	✓
Chloride in Water by IC	E235.Cl	918756	1	11	9.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	916929	1	19	5.2	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Mercury in Water by CVAAS	E509	917216	2	33	6.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	916829	1	18	5.5	5.0	✓
Total Cyanide	E333	917621	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	916859	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chloride in Water by IC	E235.Cl Waterloo - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Total Cyanide	E333 Waterloo - Environmental	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Dissolved Metals in Water by CRC ICPMS	E421 Waterloo - Environmental	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 Waterloo - Environmental	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A Waterloo - Environmental	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
Oil & Grease by Gravimetry	E567 Waterloo - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Sample extracts are analyzed by GC-FID for CCME hydrocarbon fractions (F2-F4), as per the CCME Analytical Methods Guidance Manual (2016)
VOCs (Eastern Canada List) by Headspace GC-MS	E611D Waterloo - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
PAHs by Hexane LVI GC-MS	E641A Waterloo - Environmental	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
BNA (ON 625-511 list) by GC-MS	E655A Waterloo - Environmental	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS.
F1-BTEX	EC580 Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
Oil & Grease Extraction for Gravimetry	EP567 Waterloo - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.
VOCs Preparation for Headspace Analysis	EP581 Waterloo - Environmental	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 Waterloo - Environmental	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
BNA Extraction	EP655	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
	Waterloo - Environmental			

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QUALITY CONTROL REPORT

Work Order	: **WT2311183**	Page	: 1 of 18
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 28-Apr-2023 17:00
PO	: 73522487	Date Analysis Commenced	: 01-May-2023
C-O-C number	: ----	Issue Date	: 08-May-2023 22:46
Sampler	: ---- 519 725 3313		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 918756)											
WT2311133-002	Anonymous	Chloride	16887-00-6	E235.Cl	2.50	mg/L	322	323	0.334%	20%	----
Cyanides (QC Lot: 917621)											
WT2311175-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.0020	mg/L	<0.0020	<0.0020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 916829)											
WT2311088-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0100	mg/L	0.0132	0.0142	0.0009	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00100	mg/L	135 µg/L	0.136	0.344%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000200	mg/L	<0.200 µg/L	<0.000200	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000500	mg/L	<0.000500	<0.000500	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.100	mg/L	270 µg/L	0.269	0.001	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000500	mg/L	<0.0500 µg/L	<0.0000500	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.500	mg/L	201	198	1.54%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000100	mg/L	<0.000100	<0.000100	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00200	mg/L	<2.00 µg/L	<0.00200	0	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.100	mg/L	1.53	1.53	0.0548%	20%	----
		Lead, dissolved	7439-92-1	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0100	mg/L	0.0179	0.0177	0.0002	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0500	mg/L	41.3	41.2	0.186%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00100	mg/L	1.56	1.54	1.92%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000500	mg/L	4.00 µg/L	0.00434	0.000344	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.00500	mg/L	8.68 µg/L	0.00805	0.00063	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.500	mg/L	<0.500	<0.500	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.500	mg/L	10.1	10.1	0.245%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00200	mg/L	0.00564	0.00590	0.00026	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.500	mg/L	8.63	8.76	1.42%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 916829) - continued											
WT2311088-001	Anonymous	Sodium, dissolved	7440-23-5	E421	0.500	mg/L	297000 µg/L	295	0.533%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00200	mg/L	0.849	0.900	5.80%	20%	----
		Sulfur, dissolved	7704-34-9	E421	5.00	mg/L	31.3	31.2	0.13	Diff <2x LOR	----
		Tellurium, dissolved	13494-80-9	E421	0.00200	mg/L	<0.00200	<0.00200	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00300	mg/L	<0.00300	<0.00300	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00100	mg/L	0.00507	0.00517	0.00010	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000100	mg/L	0.897 µg/L	0.000918	0.000022	Diff <2x LOR	----
		Vanadium, dissolved	7440-62-2	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0100	mg/L	<10.0 µg/L	<0.0100	0	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00300	mg/L	<0.00300	<0.00300	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 917216)											
WT2310967-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 917627)											
WT2311183-002	MW1-20	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 916929)											
WT2310967-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 916859)											
WT2310953-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	8.18	7.47	9.07%	30%	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 916859) - continued											
WT2310953-001	Anonymous	Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 916860)											
WT2310953-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients (QCLot: 918756)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 917621)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 916829)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 916829) - continued						
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 917216)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 917627)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 916929)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 926273)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Volatile Organic Compounds (QCLot: 916859)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 916859) - continued						
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 916857)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Hydrocarbons (QCLot: 916860)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 916864)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 916856)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Polycyclic Aromatic Hydrocarbons (QCLot: 916865)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 916865) - continued						
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Phthalate Esters (QCLot: 921266)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Semi-Volatile Organics (QCLot: 921266)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 921266)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Non-Chlorinated Phenolics (QCLot: 921266)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 918756)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Cyanides (QCLot: 917621)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	91.1	80.0	120	----
Dissolved Metals (QCLot: 916829)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	91.8	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	98.7	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	104	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	101	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	94.6	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	106	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	93.1	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	99.3	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	98.3	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.0025 mg/L	102	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	97.2	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	98.0	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	96.3	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	95.7	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	105	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.0125 mg/L	89.7	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	98.1	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.0125 mg/L	98.9	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	103	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	97.5	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	101	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	93.9	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	102	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	99.9	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	97.6	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	94.3	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	101	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 916829) - continued									
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.0125 mg/L	99.1	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	93.4	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	100	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	103	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	104	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	101	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.0125 mg/L	96.9	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	101	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	107	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	99.4	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	100	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	97.7	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	105	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	99.2	80.0	120	----
Speciated Metals (QCLot: 916929)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	99.4	80.0	120	----
Aggregate Organics (QCLot: 926273)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	93.5	70.0	130	----
Volatile Organic Compounds (QCLot: 916859)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	121	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	112	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	105	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	105	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	96.2	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	85.3	60.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 916859) - continued									
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	109	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	100	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	93.0	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	120	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	119	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	121	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	81.7	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	98.5	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	107	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	106	70.0	130	----
Hydrocarbons (QCLot: 916857)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4613.474 µg/L	93.6	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	6464.481 µg/L	94.2	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4040.361 µg/L	97.8	70.0	130	----
Hydrocarbons (QCLot: 916860)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	98.0	80.0	120	----
Hydrocarbons (QCLot: 916864)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4613.474 µg/L	92.4	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	6464.481 µg/L	92.0	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Hydrocarbons (QCLot: 916864) - continued									
F4 (C34-C50)	----	E601.SG	250	µg/L	4040.361 µg/L	94.7	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 916856)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	84.1	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	90.5	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	95.4	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	102	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	94.9	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	85.2	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	97.2	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	85.5	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	98.8	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	104	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	98.2	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	94.1	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	102	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	77.0	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	75.3	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	76.8	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	94.4	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	98.6	50.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 916865)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	91.9	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	95.9	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	99.5	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	102	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	100	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	92.2	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	92.0	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	89.0	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	97.8	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	96.3	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	98.7	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	97.3	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	95.8	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	90.8	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 916865) - continued									
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	91.2	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	93.4	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	96.9	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	97.3	50.0	140	----
Phthalate Esters (QCLot: 921266)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	105	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	92.0	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	95.7	50.0	140	----
Semi-Volatile Organics (QCLot: 921266)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	91.4	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	85.3	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	86.0	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	44.8	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	61.3	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	119	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	105	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	86.0	50.0	140	----
Chlorinated Phenolics (QCLot: 921266)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	92.4	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	98.6	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	101	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	108	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	100	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 921266)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	96.1	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	# 152	50.0	140	LCS-H
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	111	50.0	140	----

Qualifiers

Qualifier	Description
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 918756)										
WT2311133-002	Anonymous	Chloride	16887-00-6	E235.Cl	509 mg/L	500 mg/L	102	75.0	125	----
Cyanides (QCLot: 917621)										
WT2311175-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.215 mg/L	0.25 mg/L	86.0	75.0	125	----
Dissolved Metals (QCLot: 916829)										
WT2311161-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.912 mg/L	1 mg/L	91.2	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.475 mg/L	0.5 mg/L	95.1	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.513 mg/L	0.5 mg/L	103	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	0.125 mg/L	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0482 mg/L	0.05 mg/L	96.5	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.483 mg/L	0.5 mg/L	96.6	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.456 mg/L	0.5 mg/L	91.1	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.0462 mg/L	0.05 mg/L	92.4	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.0245 mg/L	0.025 mg/L	97.9	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.118 mg/L	0.125 mg/L	94.5	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.117 mg/L	0.125 mg/L	94.0	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.113 mg/L	0.125 mg/L	90.8	70.0	130	----
		Iron, dissolved	7439-89-6	E421	ND mg/L	0.5 mg/L	ND	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.238 mg/L	0.25 mg/L	95.1	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.118 mg/L	0.125 mg/L	94.3	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.115 mg/L	0.125 mg/L	91.8	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.123 mg/L	0.125 mg/L	98.1	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.232 mg/L	0.25 mg/L	92.9	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	4.92 mg/L	5 mg/L	98.5	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	23.4 mg/L	25 mg/L	93.7	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0501 mg/L	0.05 mg/L	100	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.468 mg/L	0.5 mg/L	93.6	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	5 mg/L	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.0432 mg/L	0.05 mg/L	86.5	70.0	130	----

Sub-Matrix: **Water**

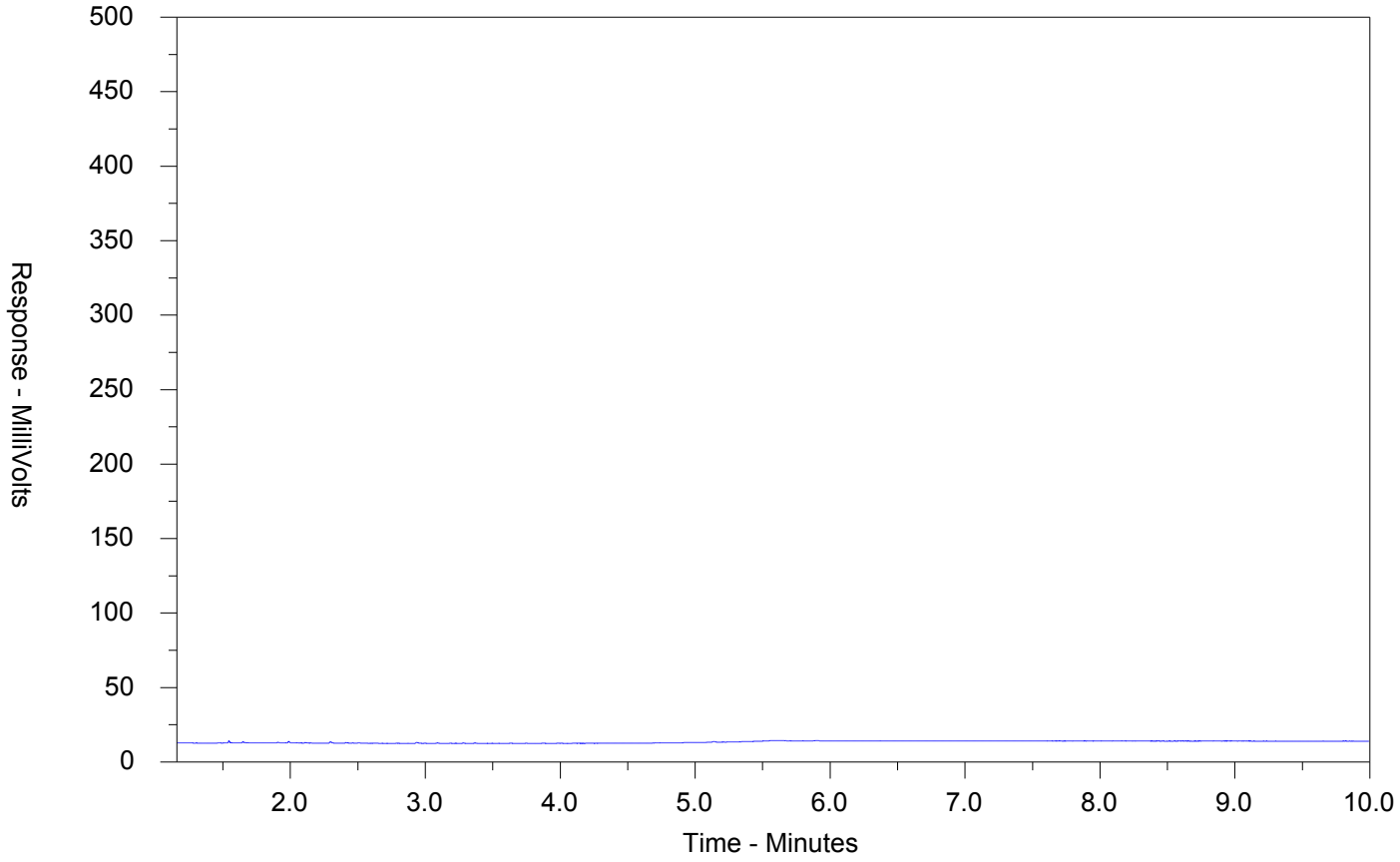
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 916829) - continued										
WT2311161-001	Anonymous	Sodium, dissolved	7440-23-5	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	0.125 mg/L	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0459 mg/L	0.05 mg/L	91.8	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.475 mg/L	0.5 mg/L	95.0	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0488 mg/L	0.05 mg/L	97.7	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.243 mg/L	0.25 mg/L	97.4	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.119 mg/L	0.125 mg/L	95.4	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0478 mg/L	0.05 mg/L	95.5	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00247 mg/L	0.0025 mg/L	98.7	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.245 mg/L	0.25 mg/L	98.2	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.233 mg/L	0.25 mg/L	93.2	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0479 mg/L	0.05 mg/L	95.9	70.0	130	----
Dissolved Metals (QCLot: 917216)										
WT2311069-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000884 mg/L	0.0001 mg/L	88.4	70.0	130	----
Dissolved Metals (QCLot: 917627)										
WT2311183-003	MW2-20	Mercury, dissolved	7439-97-6	E509	0.000101 mg/L	0.0001 mg/L	101	70.0	130	----
Speciated Metals (QCLot: 916929)										
WT2310967-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0394 mg/L	0.04 mg/L	98.4	70.0	130	----
Volatile Organic Compounds (QCLot: 916859)										
WT2310953-001	Anonymous	Acetone	67-64-1	E611D	119 µg/L	100 µg/L	119	60.0	140	----
		Benzene	71-43-2	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Bromoform	75-25-2	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Bromomethane	74-83-9	E611D	98.6 µg/L	100 µg/L	98.6	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Chlorobenzene	108-90-7	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Chloroform	67-66-3	E611D	99.8 µg/L	100 µg/L	99.8	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	94.7 µg/L	100 µg/L	94.7	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	87.1 µg/L	100 µg/L	87.1	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	100.0 µg/L	100 µg/L	100.0	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	77.9 µg/L	100 µg/L	77.9	60.0	140	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 916859) - continued										
WT2310953-001	Anonymous	Dichloroethane, 1,1-	75-34-3	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	99.6 µg/L	100 µg/L	99.6	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	97.2 µg/L	100 µg/L	97.2	60.0	140	----
		Dichloromethane	75-09-2	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	99.9 µg/L	100 µg/L	99.9	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	89.8 µg/L	100 µg/L	89.8	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	82.1 µg/L	100 µg/L	82.1	60.0	140	----
		Ethylbenzene	100-41-4	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Hexane, n-	110-54-3	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	91 µg/L	100 µg/L	91.5	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	84 µg/L	100 µg/L	83.6	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	108 µg/L	100 µg/L	108	60.0	140	----
		Styrene	100-42-5	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	95.2 µg/L	100 µg/L	95.2	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	89.3 µg/L	100 µg/L	89.3	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Toluene	108-88-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	99.4 µg/L	100 µg/L	99.4	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	91.9 µg/L	100 µg/L	91.9	60.0	140	----
		Trichloroethylene	79-01-6	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Vinyl chloride	75-01-4	E611D	92.0 µg/L	100 µg/L	92.0	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	204 µg/L	200 µg/L	102	60.0	140	----
		Xylene, o-	95-47-6	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140	----
Hydrocarbons (QCLot: 916860)										
WT2310953-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1750 µg/L	2000 µg/L	87.5	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-001-E601.SG
Client Sample ID: AppWell



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

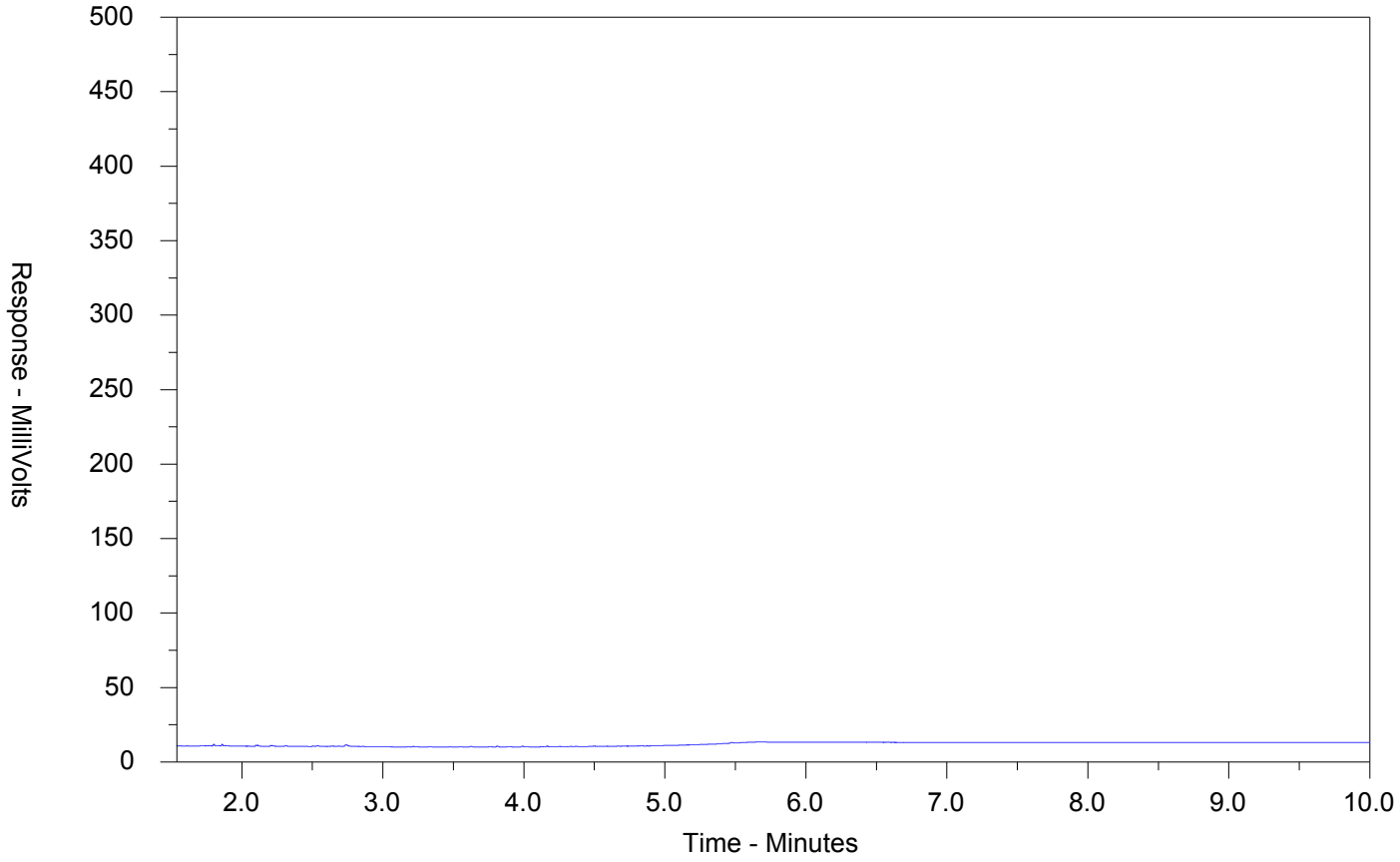
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-002-E601.SG
Client Sample ID: MW1-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

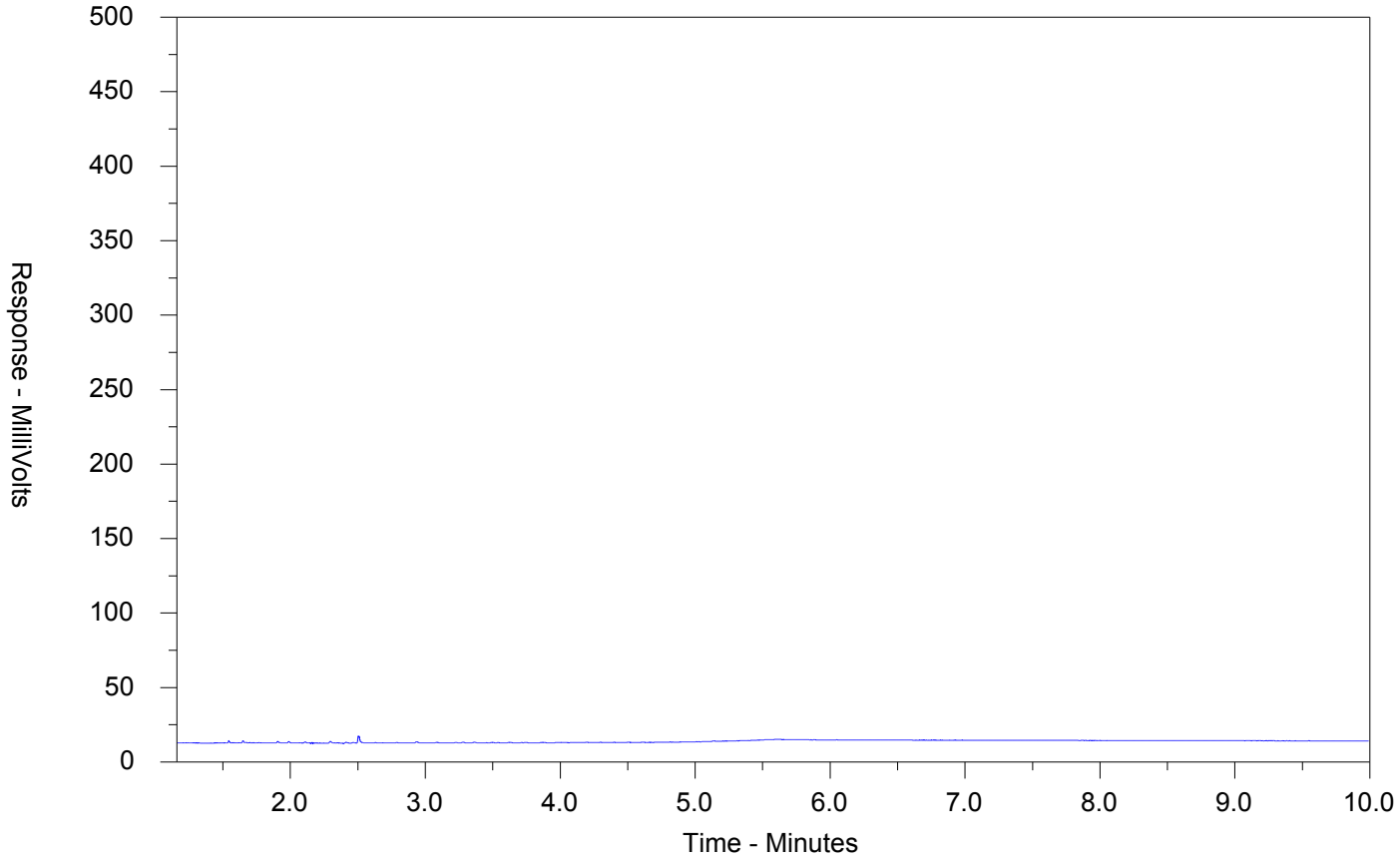
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-003-E601.SG
Client Sample ID: MW2-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

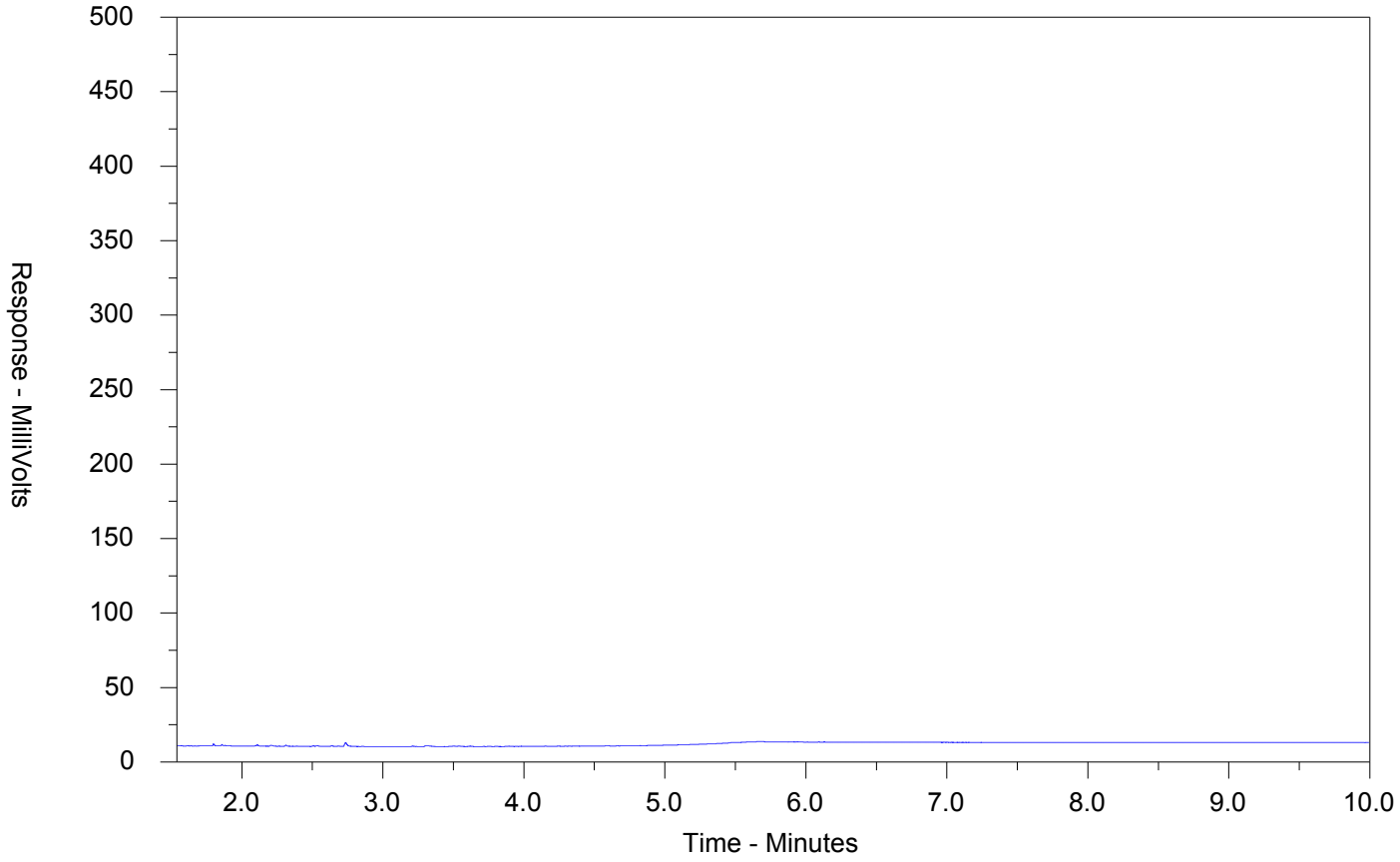
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-004-E601.SG
Client Sample ID: Dup



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

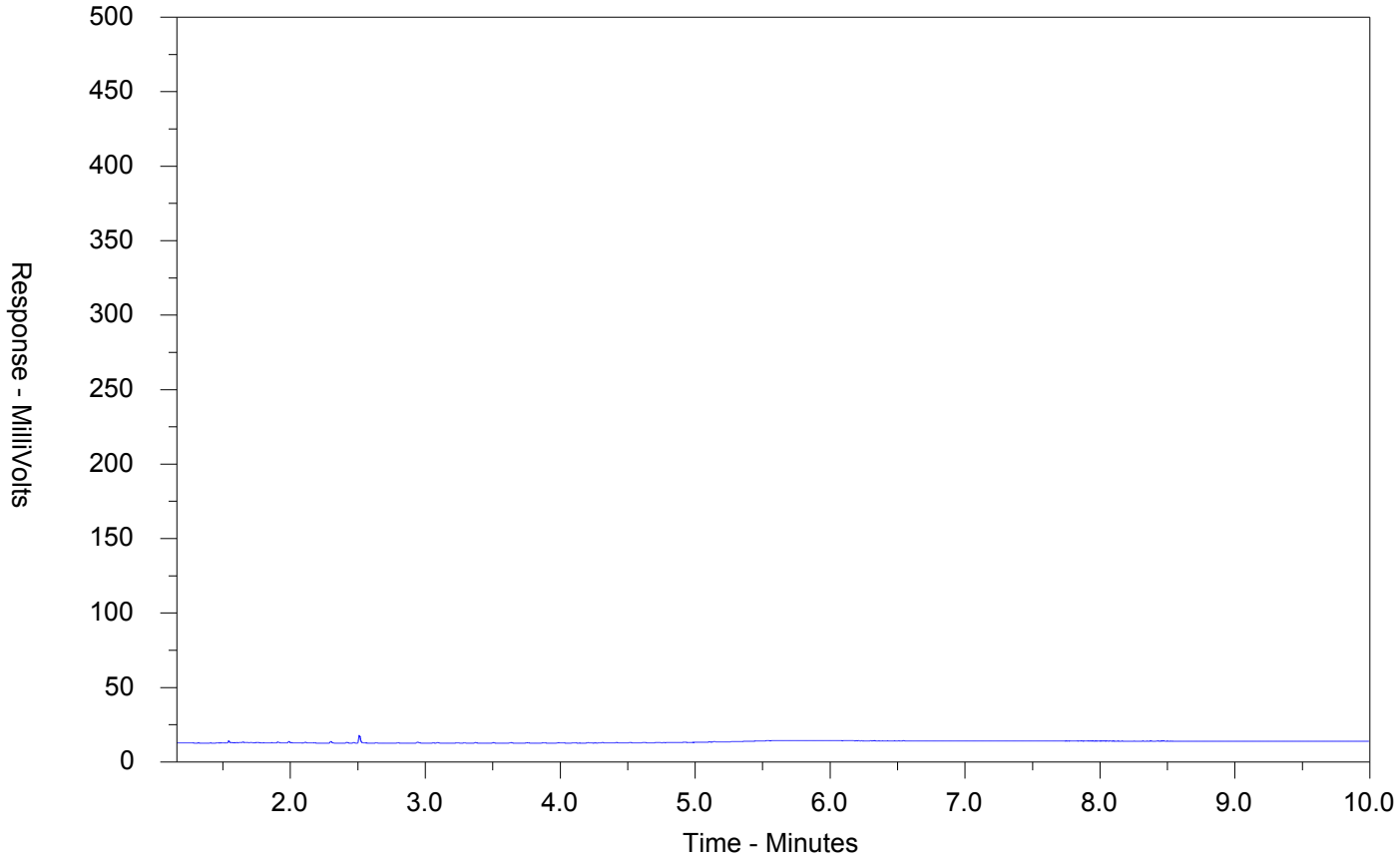
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-005-E601.SG
Client Sample ID: AgWell



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

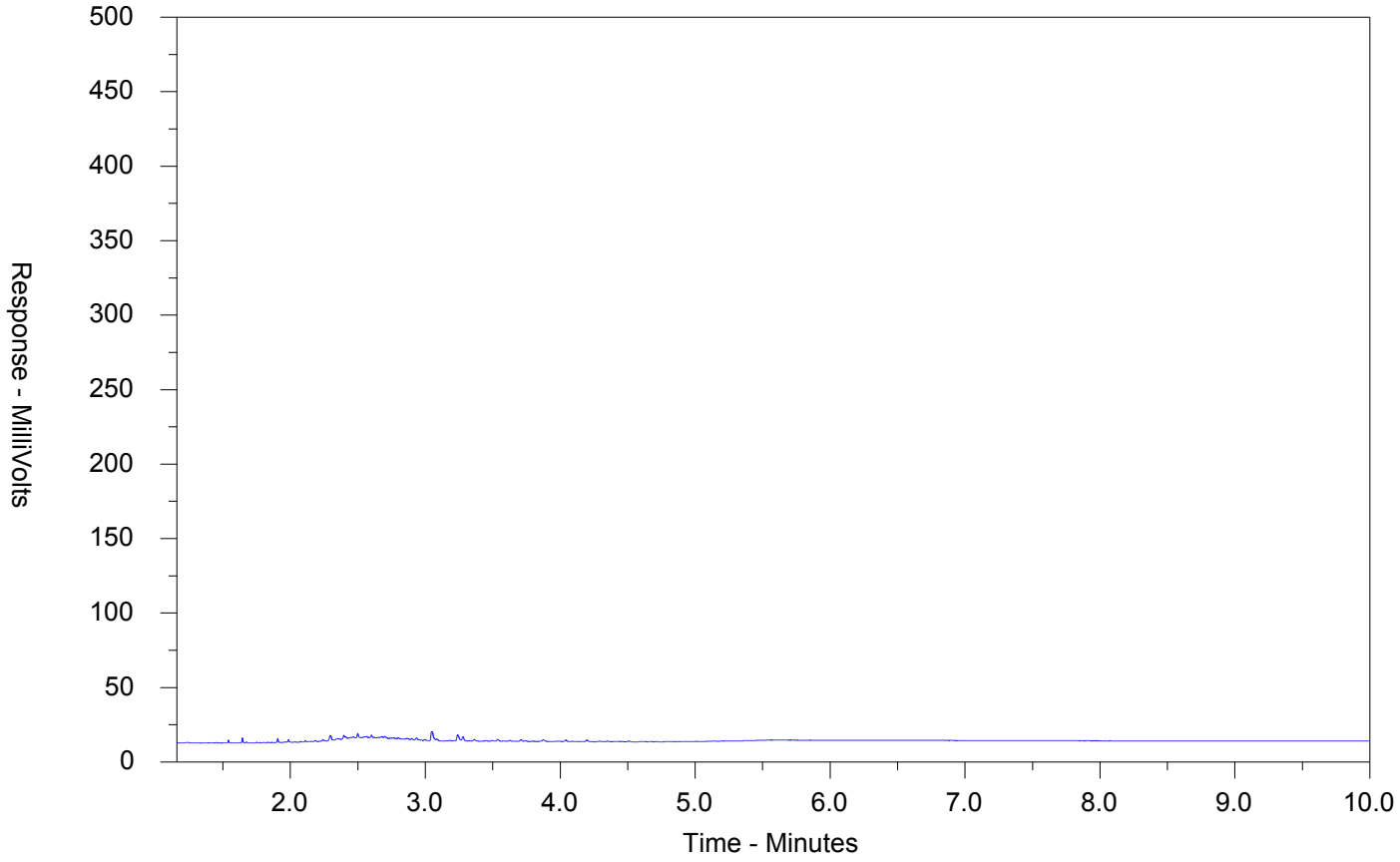
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-006-E601.SG
Client Sample ID: MW3-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

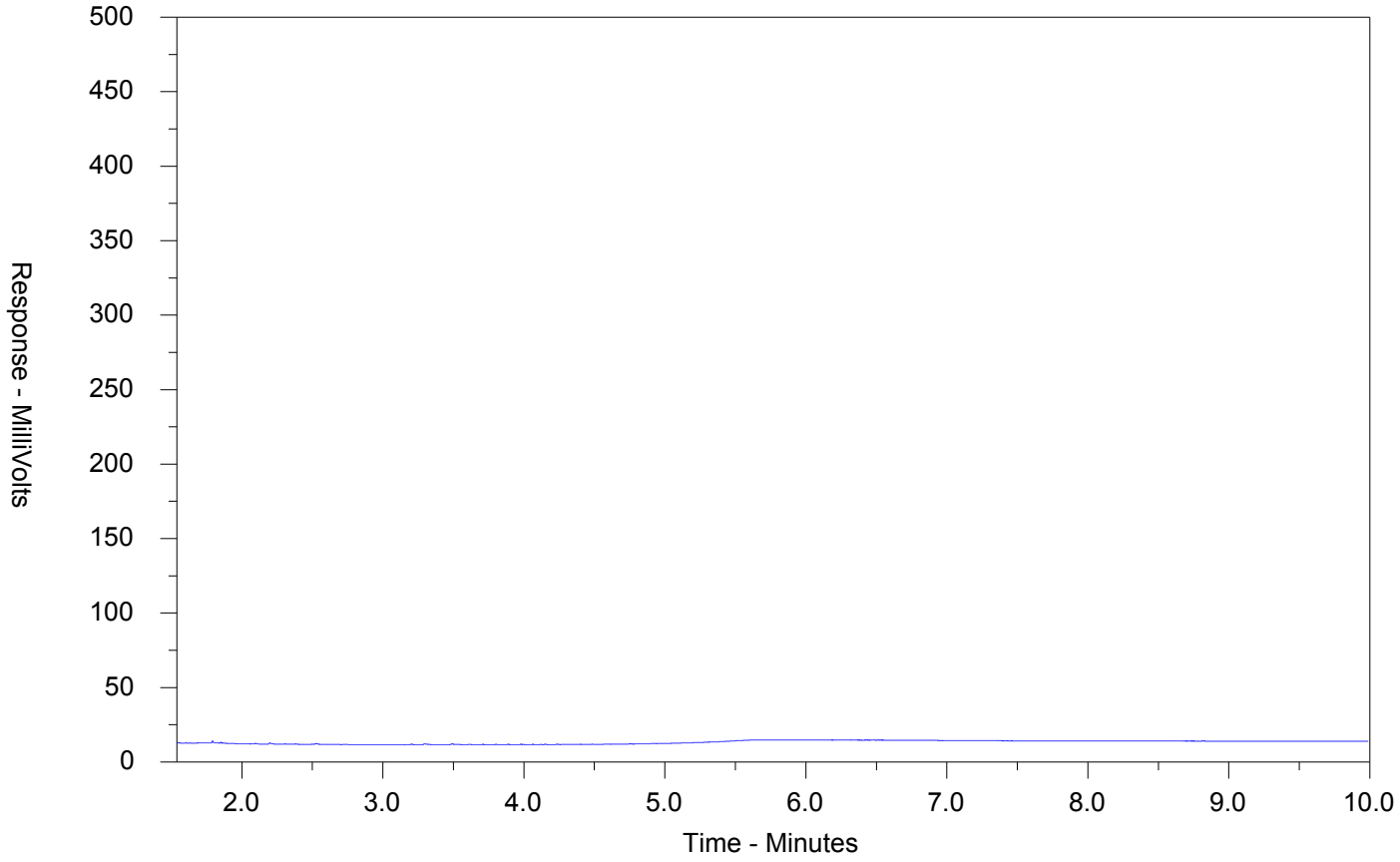
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-007-E601.SG
Client Sample ID: BH-213



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

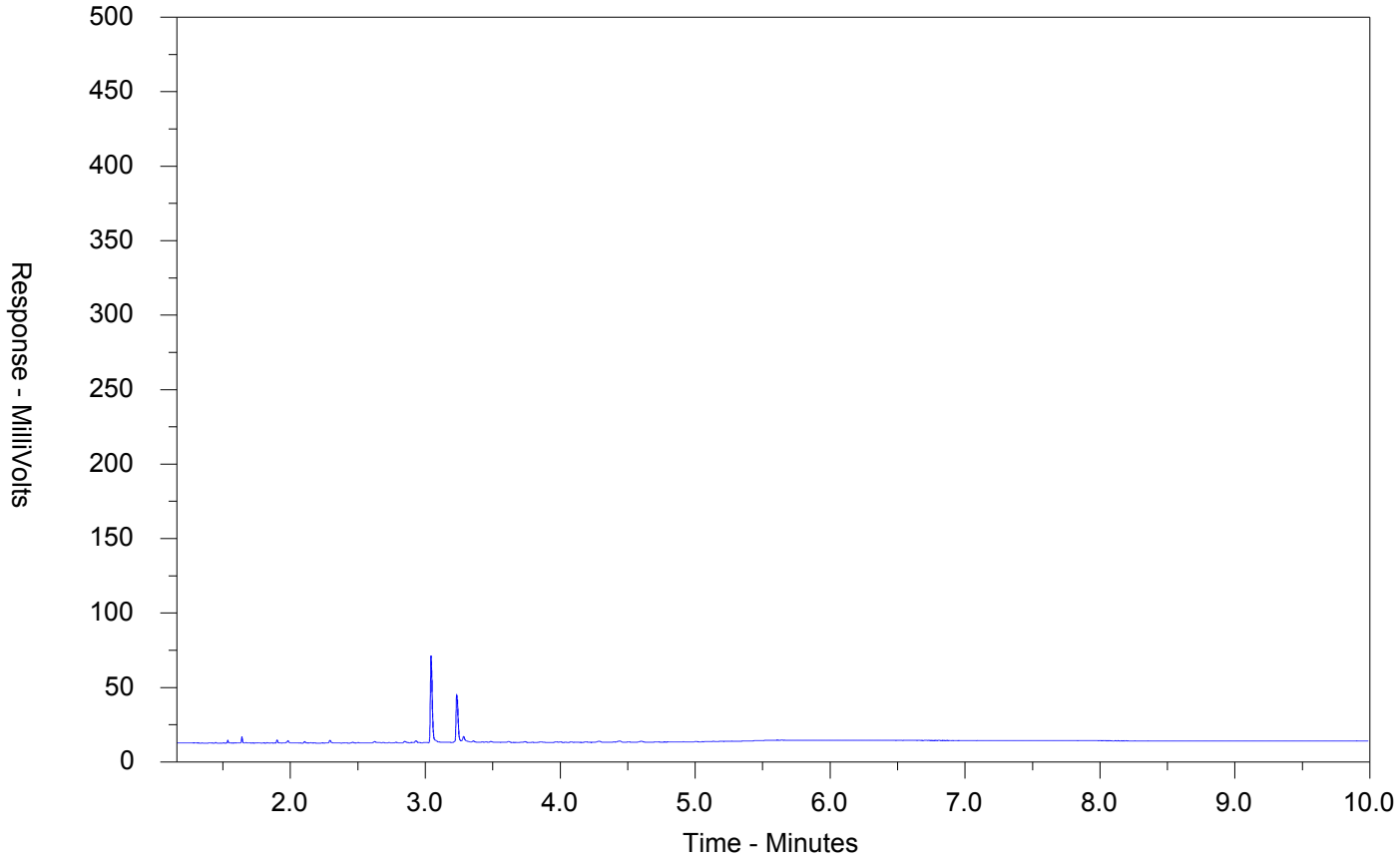
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-008-E601.SG
Client Sample ID: BH-219



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

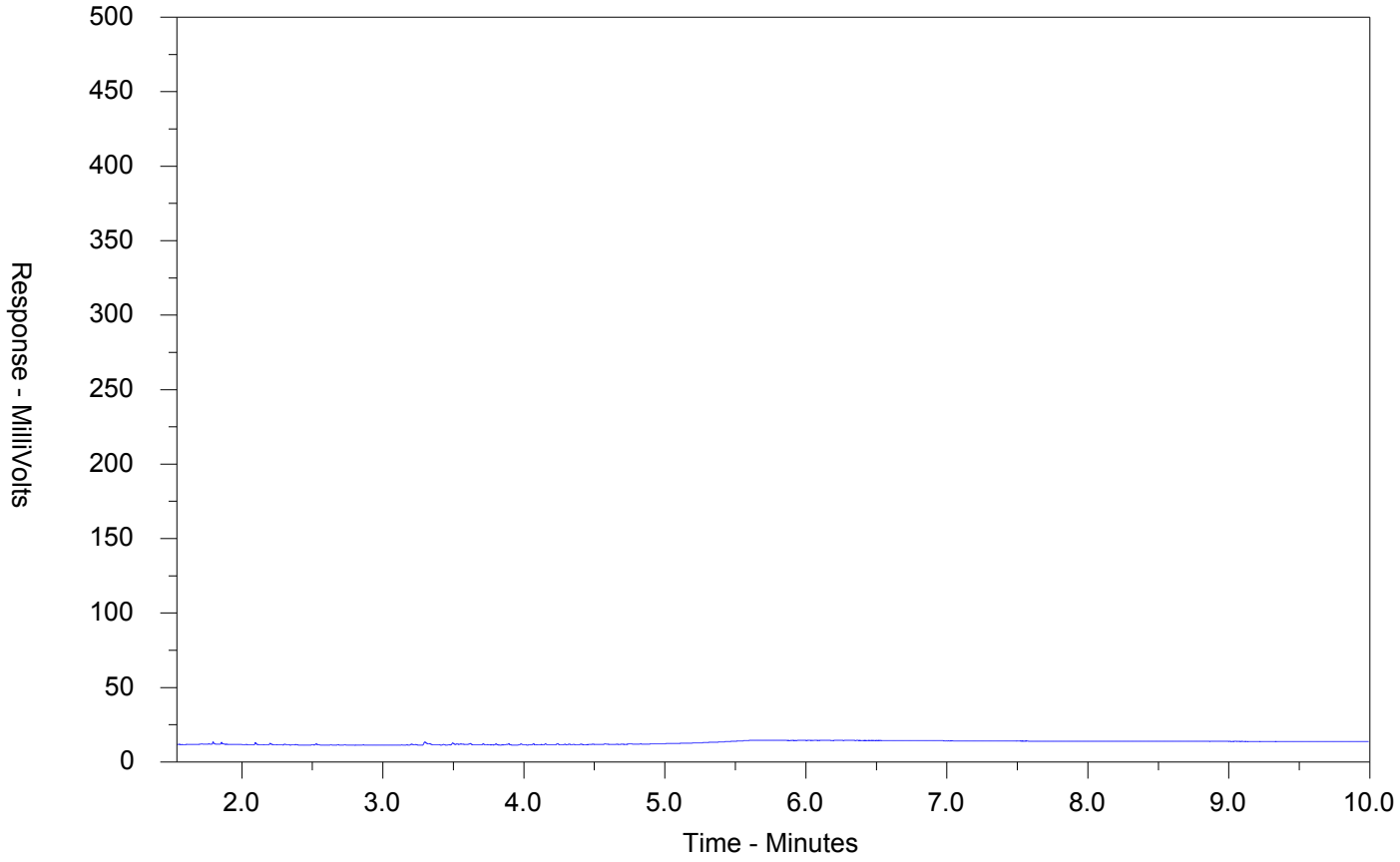
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-009-E601.SG
Client Sample ID: BH-214



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

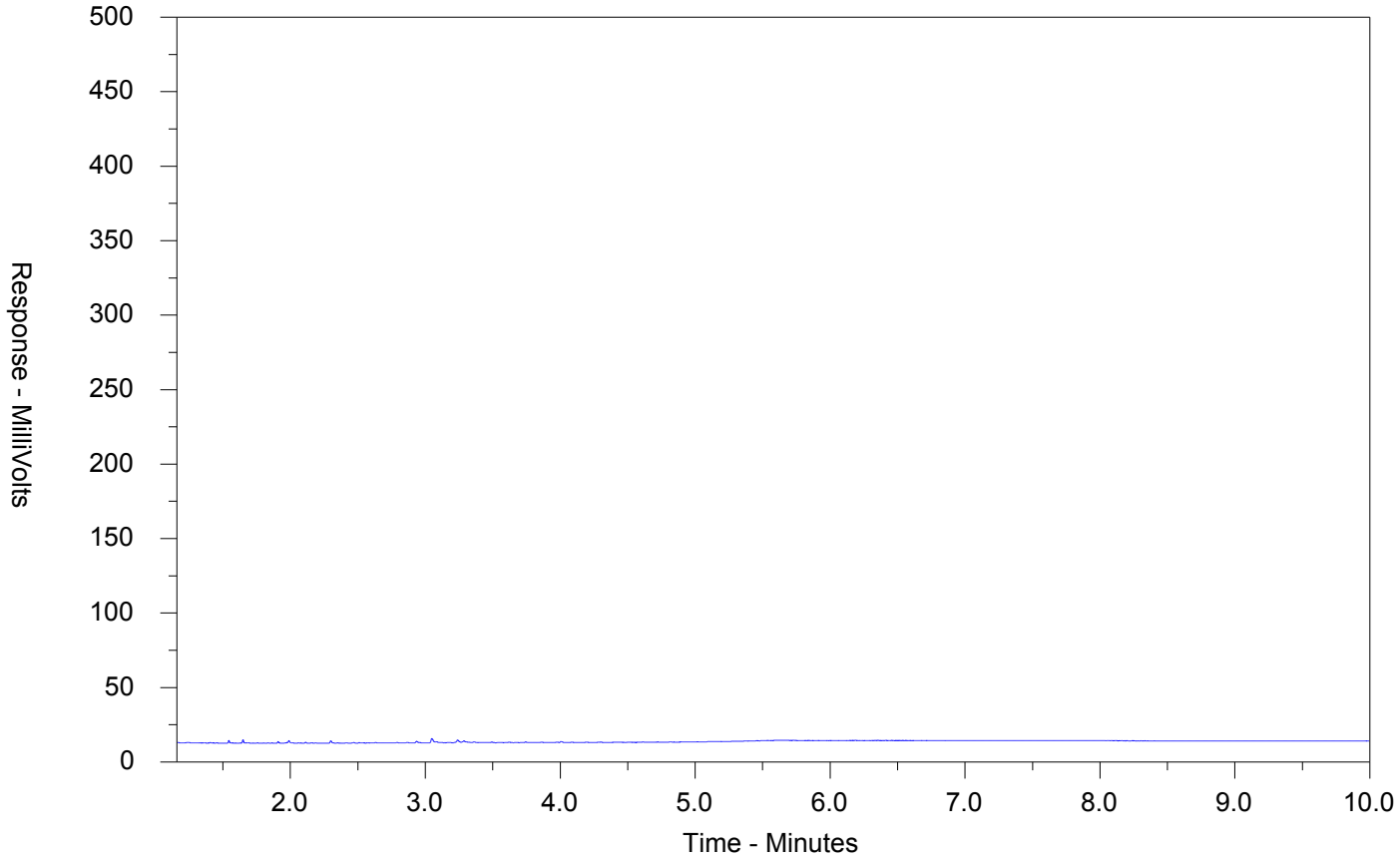
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-010-E601.SG
Client Sample ID: FB



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number:

Pa

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Environmental Division Waterloo
Work Order Reference
WT2311183

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: pascal.renella@ghd.com
Email 2: See SSOW/PO
Email 3:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge mi
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge m
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge m
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge m
Same day [E2] if received by 10am M-S - 200% rush surcha
☐ fees may apply to rush resuests on weekends, statutory holid routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accountspayableCDN@ghd.com
Email 2:

Project Information

ALS Account # / Quote #: GHDL100 / WT2022GHDL1000018
Job #: 11210029
PO / AFE: 73522487
LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#:
Major/Minor Code: Routing Code:
Requisitioner:
Location:

ALS Lab Work Order # (lab use only): 1183 TS
ALS Contact: Rick H
Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	GROUNDWATER ANALYSIS	Dissolved Metals (Field Filter)	Dissolved Mercury (Field Filter)	Dissolved hexavalent Chromium (FF)	Total Cyanide	Total Oil and Grease	Chloride	VOC,PHC F1-F4	SVOCs (including PAHs)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED
	AppWell	28-Apr-23	9:10	Water	13	R	R	R	R	R	R	R	R	R		
	MW1-20	↓	9:50	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
	MW2-20		10:55													
	DUP		10:55													
	AgWell		11:25													
	MW3-20		12:25													
	BH-213		13:15													
	BH-219		14:05													
	BH-214		14:50													
	FB	↓	15:20	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO
Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
			9.4	10.5	10.3	10.7	11

SHIPMENT RELEASE (client use)

Released by: [redacted] Date: Apr 28/23 Time: 16:45

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: [redacted] Date: 28 APR 23 Time: 17

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

MM-881 GC-757 CN-025
SG298 VW-215 OR-521 OS-195/194 OGG5:3

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2319485**	Page	: 1 of 49
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 30-Jun-2023 09:20
PO	: 73522487	Date Analysis Commenced	: 30-Jun-2023
C-O-C number	: ----	Issue Date	: 14-Jul-2023 13:01
Sampler	: T.HAMILTON		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Manuel TavaraTello	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Metals, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Sample Comments

Sample	Client Id	*Comment*
WT2319485-001	AG WELL	RRR: Detection limit raised due to bias low analyte response in continuing calibration standard.
WT2319485-002	APP WELL	RRR: Detection limit raised due to bias low analyte response in continuing calibration standard.
WT2319485-003	MW1-20	RRR: Detection limit raised due to bias low analyte response in continuing calibration standard.
WT2319485-004	MW4-23	RRR: Detection limit raised due to bias low analyte response in continuing calibration standard.
WT2319485-007	MW5-23	RRR: Although the method blank is non-detect there is a strong peak for Diethyl phthalate causing uncertainty near the detection limit, therefore it has been raised accordingly.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
HSED	*High sediment content in submitted water sample. Analysis could only proceed using aqueous fraction after decanting. Results may be biased low and may be inappropriate for regulatory or compliance purposes.*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*
RRR	*Refer to report comments for issues regarding this analysis.*
SUR-ND	*Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.*

Analytical Results

WT2319485-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG WELL
Client sampling date / time: 28-Jun-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	17.9	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0025	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00481	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0626	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	0.0000053	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	75.1	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00235	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	0.567	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	0.000083	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0041	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	37.2	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.0136	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000446	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	0.993	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	9.27	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	7.20	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.138	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	17.1	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000196	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0052	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691

Analytical Results

WT2319485-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG WELL
Client sampling date / time: 28-Jun-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020507
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702

Analytical Results

WT2319485-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG WELL
Client sampling date / time: 28-Jun-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	78.1	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	91.0	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	95.2	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Difluorobenzene, 1,4-	540-36-3	98.5	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	108	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	96.3	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	114	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								

Analytical Results

WT2319485-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AG WELL
Client sampling date / time: 28-Jun-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	68.0	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Nitrobenzene-d5	4165-60-0	66.0	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Terphenyl-d14, p-	1718-51-0	87.2	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR.	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	98.5	0.20	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: APP WELL
Client sampling date / time: 28-Jun-2023 12:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	5.10	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0014	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APP WELL
Client sampling date / time: 28-Jun-2023 12:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00469	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0798	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.015	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	50.5	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	0.152	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0039	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	28.5	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.00638	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000537	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	1.00	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00040	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.00629	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	7.48	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	6.15	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.438	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	11.7	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000406	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593

Analytical Results

WT2319485-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APP WELL
Client sampling date / time: 28-Jun-2023 12:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703

Analytical Results

WT2319485-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APP WELL
Client sampling date / time: 28-Jun-2023 12:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	77.6	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	88.0	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.9	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Difluorobenzene, 1,4-	540-36-3	98.8	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	108	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	112	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Analytical Results

WT2319485-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: APP WELL
Client sampling date / time: 28-Jun-2023 12:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.1	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Nitrobenzene-d5	4165-60-0	93.8	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Terphenyl-d14, p-	1718-51-0	95.3	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR,	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	105	0.20	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Jun-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	92.8 DLDS,	2.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0017	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00015	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0846	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.035	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-003

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 28-Jun-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	0.0000610	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	145	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00354	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	0.000330	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0016	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	45.5	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.00079	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000167	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	12.8	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00068	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.00197	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	4.75	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	23.0	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.170	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	15.3	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	0.000017	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000340	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0406	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702

Analytical Results

WT2319485-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Jun-2023 14:50

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorodifluoromethane	75-71-8	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,1-	75-34-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylenes, total	1330-20-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
BTEX, total	----	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653

Analytical Results

WT2319485-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Jun-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.4	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	72.1	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	93.8	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Difluorobenzene, 1,4-	540-36-3	98.3	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	0.029	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	0.022	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	108	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	104	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	111	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Analytical Results

WT2319485-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 28-Jun-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	89.1	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Nitrobenzene-d5	4165-60-0	86.7	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Terphenyl-d14, p-	1718-51-0	91.4	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	92.6	0.20	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	10.9	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0019	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00022	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0986	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.012	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	87.1	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	0.00123	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-004

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Copper, dissolved	7440-50-8	0.00124	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0020	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	36.7	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.0133	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000759	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	3.81	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00082	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000494	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	7.30	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	5.17	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.115	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	6.56	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000580	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0018	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00122	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702

Analytical Results

WT2319485-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorodifluoromethane	75-71-8	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,1-	75-34-3	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,2-	107-06-2	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloromethane	75-09-2	<1.0 OWP.	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropane, 1,2-	78-87-5	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP.	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP.	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP.	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Ethylbenzene	100-41-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hexane, n-	110-54-3	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP.	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP.	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Styrene	100-42-5	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethylene	127-18-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Toluene	108-88-3	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethylene	79-01-6	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichlorofluoromethane	75-69-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Vinyl chloride	75-01-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, m+p-	179601-23-1	<0.40 OWP.	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, o-	95-47-6	<0.30 OWP.	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylenes, total	1330-20-7	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
BTEX, total	----	<1.0 OWP.	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP.	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.1	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653

Analytical Results

WT2319485-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	80.5	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.7	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Difluorobenzene, 1,4-	540-36-3	98.4	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.037	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.086	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.049	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	103	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	92.4	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	98.2	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	68.4	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Nitrobenzene-d5	4165-60-0	79.3	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Analytical Results

WT2319485-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	96.2	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	112	0.20	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23X
Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	11.0	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0017	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00022	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0966	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.011	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	87.5	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	0.00127	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00128	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0020	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	36.5	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23X

Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Manganese, dissolved	7439-96-5	0.0127	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000747	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	3.73	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00082	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000468	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	7.21	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	5.20	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.115	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	6.48	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000595	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0044	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00125	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702

Analytical Results

WT2319485-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23X
Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylenes, total	1330-20-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
BTEX, total	----	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.4		1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	79.4		1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	95.6		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Difluorobenzene, 1,4-	540-36-3	98.3		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Polycyclic Aromatic Hydrocarbons									

Analytical Results

WT2319485-005

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW4-23X

Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.033	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.077	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.044	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	109	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	101	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	116	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60 HSED,	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	85.7	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	86.3	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	86.2	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23X

Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	90.1	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB1

Client sampling date / time: 29-Jun-2023 10:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	<0.0050	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB1
Client sampling date / time: 29-Jun-2023 10:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Potassium, dissolved	7440-09-7	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	0.193	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	0.00023	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	0.62	0.50	µg/L	E611D/WT	04-Jul-2023	05-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-006

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: FB1
Client sampling date / time: 29-Jun-2023 10:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	06-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	73.3	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	102	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.6	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	97.9	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654

Analytical Results

WT2319485-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB1
Client sampling date / time: 29-Jun-2023 10:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	94.6	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	101	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	110	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	89.0	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	91.0	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	94.2	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB1

Client sampling date / time: 29-Jun-2023 10:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	87.2	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 29-Jun-2023 11:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	19.0	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0025	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	0.00011	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00019	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0444	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.018	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	75.7	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	0.00059	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00077	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0014	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	26.0	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.00338	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.00144	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	1.46	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00144	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000585	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	6.04	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 29-Jun-2023 11:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sodium, dissolved	7440-23-5	7.55	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.107	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	2.06	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	0.000012	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000270	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0024	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00052	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0 OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 29-Jun-2023 11:10

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	0.73	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	0.43	OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	1.2	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.0		1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	92.4		1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	94.7		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	97.7		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050		0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050		0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654

Analytical Results

WT2319485-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 29-Jun-2023 11:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.031	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.072	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.041	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	0.051	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	106	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	113	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.22 HSED, RRR,	0.22	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60 HSED,	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	87.8	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	86.4	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	90.3	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	89.1	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 29-Jun-2023 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	16.6	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0025	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00103	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0998	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.081	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	0.000107	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	114	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	0.00078	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.0176	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0015	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	42.4	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.114	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000157	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	0.00597	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	0.058	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	69.0 DLHC,	0.500	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.0129	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000169	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	4.72	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	12.5	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.147	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	11.4	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	0.000082	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000532	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0274	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691

Analytical Results

WT2319485-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 29-Jun-2023 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 29-Jun-2023 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.0	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	92.5	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	93.0	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	98.0	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	107	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	100	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	112	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								

Analytical Results

WT2319485-008

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW2-20

Client sampling date / time: 29-Jun-2023 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	91.4	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	90.2	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	94.7	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	92.3	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-009

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW3-20

Client sampling date / time: 29-Jun-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	5.62	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0052	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 29-Jun-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00042	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0496	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.011	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	106	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00073	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0035	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	48.9	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.00458	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000462	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	1.09	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00070	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000092	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	7.40	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	4.67	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.155	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	7.52	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000888	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	0.00097	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593

Analytical Results

WT2319485-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 29-Jun-2023 13:00

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065

Analytical Results

WT2319485-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 29-Jun-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	76.4	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	81.5	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.2	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	97.8	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	0.029	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	0.030	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	0.013	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	0.034	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.014	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.031	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.017	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	0.028	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	102	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	95.0	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	110	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 29-Jun-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	85.0	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	84.4	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	69.8	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	81.1	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 29-Jun-2023 14:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	7.44	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0015	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00028	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0290	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 29-Jun-2023 14:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	0.0000488	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	63.3	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	0.00092	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00285	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	0.000072	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0023	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	21.8	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.456	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000779	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	0.00238	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	2.63	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00084	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	3.49	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	2.81	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.0886	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	1.85	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	0.000046	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000226	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0147	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 29-Jun-2023 14:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653

Analytical Results

WT2319485-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 29-Jun-2023 14:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.0	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	88.6	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	93.2	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	97.9	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	98.7	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 29-Jun-2023 14:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	83.1	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	90.4	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	89.2	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR,	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	123	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-011

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH214

Client sampling date / time: 29-Jun-2023 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	7.13	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0086	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	0.00036	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00078	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0348	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.011	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	0.0000238	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	95.7	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH214
Client sampling date / time: 29-Jun-2023 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Copper, dissolved	7440-50-8	0.00271	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	0.000120	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	47.9	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.00498	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000706	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	0.00091	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	1.57	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00215	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000449	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	4.63	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	4.12	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.107	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	6.01	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	0.000026	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	0.00019	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000266	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	0.00052	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0026	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH214
Client sampling date / time: 29-Jun-2023 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0 OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	<0.40 OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30 OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0 OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	75.0	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653

Analytical Results

WT2319485-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH214
Client sampling date / time: 29-Jun-2023 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	88.2	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.2	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	98.3	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.026	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.058	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.032	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	0.013	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	103	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	90.0	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<15.0 RRR	15.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	67.7	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	73.2	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-011

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH214

Client sampling date / time: 29-Jun-2023 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	59.1 RRR	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	102	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-012

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 29-Jun-2023 16:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.08	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030556
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00012	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.185	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.016	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	0.0000473	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	124	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00059	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	0.000051	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0031	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	52.9	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-012

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 29-Jun-2023 16:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Manganese, dissolved	7439-96-5	0.00020	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000226	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	1.57	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00110	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000457	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	8.20	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	4.32	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.151	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	14.2	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000910	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0200	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-012

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 29-Jun-2023 16:15

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	72.2		1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	84.1		1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	94.5		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	97.4		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons									

Analytical Results

WT2319485-012

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 29-Jun-2023 16:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.023	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.013	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	103	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	89.4	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.6	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	81.9	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	89.6	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-012

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 29-Jun-2023 16:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR,	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	166 SUR-ND,	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

ALS Canada Ltd.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2319485**	Page	: 1 of 27
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 30-Jun-2023 09:20
PO	: 73522487	Issue Date	: 14-Jul-2023 13:03
C-O-C number	: ----		
Sampler	: T.HAMILTON		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Method Blank value outliers occur - please see following pages for full details.
- Test sample Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Polycyclic Aromatic Hydrocarbons	QC-MRG2-1022653 001	----	Dibenz(a,h)anthracene	53-70-3	E641A	0.0052 µg/L MB-LOR	0.005 µg/L	Blank result exceeds permitted value

Result Qualifiers

Qualifier	*Description*
MB-LOR	*Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.*

Regular Sample Surrogates

Sub-Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Result	Limits	Comment
Samples Submitted							
Semi-Volatile Organics Surrogates	WT2319485-011	BH214	Terphenyl-d14, p-	1718-51-0	59.1 %	60.0-140 %	Recovery less than lower data quality objective
Phenolics Surrogates	WT2319485-012	BH219	Tribromophenol, 2,4,6-	118-79-6	166 %	50.0-140 %	Recovery greater than upper data quality objective

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH213	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH214	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH219	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) FB1	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW2-20	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW3-20	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW5-23	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AG WELL	E567	28-Jun-2023	03-Jul-2023	28 days	5 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) APP WELL	E567	28-Jun-2023	03-Jul-2023	28 days	5 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW1-20	E567	28-Jun-2023	03-Jul-2023	28 days	5 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW4-23	E567	29-Jun-2023	03-Jul-2023	28 days	5 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW4-23X	E567	29-Jun-2023	03-Jul-2023	28 days	5 days	✓	04-Jul-2023	40 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH213	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH214	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH219	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] FB1	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW2-20	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW3-20	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW4-23	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW4-23X	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW5-23	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
AG WELL	E235.Cl	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	05-Jul-2023	22 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
APP WELL	E235.Cl	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	05-Jul-2023	22 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW1-20	E235.Cl	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	05-Jul-2023	22 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	29-Jun-2023	09-Jul-2023	14 days	10 days	✓	11-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH214	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB1	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW2-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23X	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
BH213	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
BH214	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
BH219	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
FB1	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
MW2-20	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
MW3-20	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
MW4-23	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) MW4-23X	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) MW5-23	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) AG WELL	E333	28-Jun-2023	10-Jul-2023	14 days	12 days	✓	10-Jul-2023	2 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) APP WELL	E333	28-Jun-2023	10-Jul-2023	14 days	12 days	✓	10-Jul-2023	2 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) MW1-20	E333	28-Jun-2023	10-Jul-2023	14 days	12 days	✓	10-Jul-2023	2 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH213	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH214	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH219	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) FB1	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW2-20	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW3-20	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW4-23	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW4-23X	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW5-23	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
AG WELL	E509	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	04-Jul-2023	22 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
APP WELL	E509	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	04-Jul-2023	22 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW1-20	E509	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	04-Jul-2023	22 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
BH213	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH214	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH219	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) FB1	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW2-20	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW3-20	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW4-23	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW4-23X	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW5-23	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) AG WELL	E421	28-Jun-2023	30-Jun-2023	180 days	2 days	✓	30-Jun-2023	178 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
APP WELL	E421	28-Jun-2023	30-Jun-2023	180 days	2 days	✓	30-Jun-2023	178 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW1-20	E421	28-Jun-2023	30-Jun-2023	180 days	2 days	✓	30-Jun-2023	178 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH213	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH214	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH219	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
FB1	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MW2-20	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MW3-20	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MW4-23	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW4-23X	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW5-23	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) AG WELL	E581.F1-L	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) APP WELL	E581.F1-L	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW1-20	E581.F1-L	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) BH213	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) BH214	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) BH219	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) FB1	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW2-20	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW3-20	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23X	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW5-23	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
AG WELL	E601.SG	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
APP WELL	E601.SG	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW1-20	E601.SG	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	10-Jul-2023	40 days	5 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	29-Jun-2023	09-Jul-2023	14 days	10 days	✓	11-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] AG WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] APP WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW1-20	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH213	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH214	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH219	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] FB1	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW2-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW3-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23X	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	29-Jun-2023	09-Jul-2023	14 days	10 days	✓	11-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH214	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB1	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW2-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23X	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH213	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH214	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH219	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
FB1	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW2-20	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW3-20	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23X	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW5-23	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
AG WELL	E641A	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
APP WELL	E641A	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW1-20	E641A	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	12-Jul-2023	40 days	7 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	29-Jun-2023	09-Jul-2023	14 days	10 days	✓	11-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] AG WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] APP WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW1-20	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH213	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH214	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH219	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] FB1	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW2-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW3-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23X	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH213	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH214	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH219	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
FB1	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW2-20	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW3-20	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW4-23	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW4-23X	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW5-23	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AG WELL	E532A	28-Jun-2023	----	----	----		04-Jul-2023	28 days	6 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
APP WELL	E532A	28-Jun-2023	----	----	----		04-Jul-2023	28 days	6 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW1-20	E532A	28-Jun-2023	----	----	----		04-Jul-2023	28 days	6 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH213	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH214	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH219	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
FB1	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓

Matrix: **Water**

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Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW2-20	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW3-20	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW4-23	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW4-23X	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW5-23	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) AG WELL	E611D	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) APP WELL	E611D	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW1-20	E611D	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1020703	2	24	8.3	5.0	✓
Chloride in Water by IC	E235.Cl	1021983	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1020794	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1020691	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1018942	1	19	5.2	5.0	✓
Total Cyanide	E333	1030556	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1020702	3	57	5.2	5.0	✓
Laboratory Control Samples (LCS)							
BNA (ON 625-511 list) by GC-MS	E655A	1030246	2	17	11.7	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1020703	2	24	8.3	5.0	✓
Chloride in Water by IC	E235.Cl	1021983	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1020794	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1020691	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1018942	1	19	5.2	5.0	✓
Oil & Grease by Gravimetry	E567	1020507	2	20	10.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	1022654	1	12	8.3	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1022653	1	20	5.0	5.0	✓
Total Cyanide	E333	1030556	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1020702	3	57	5.2	5.0	✓
Method Blanks (MB)							
BNA (ON 625-511 list) by GC-MS	E655A	1030246	2	17	11.7	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1020703	2	24	8.3	5.0	✓
Chloride in Water by IC	E235.Cl	1021983	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1020794	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1020691	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1018942	1	19	5.2	5.0	✓
Oil & Grease by Gravimetry	E567	1020507	2	20	10.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	1022654	1	12	8.3	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1022653	1	20	5.0	5.0	✓
Total Cyanide	E333	1030556	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1020702	3	57	5.2	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1020703	2	24	8.3	5.0	✓
Chloride in Water by IC	E235.Cl	1021983	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1020794	1	20	5.0	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Mercury in Water by CVAAS	E509	1020691	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1018942	1	19	5.2	5.0	✓
Total Cyanide	E333	1030556	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1020702	3	57	5.2	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Total Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A ALS Environmental - Waterloo	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
Oil & Grease by Gravimetry	E567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hexane LVI GC-MS	E641A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
BNA (ON 625-511 list) by GC-MS	E655A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS.
F1-BTEX	EC580 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
BNA Extraction	EP655 ALS Environmental - Waterloo	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.

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QUALITY CONTROL REPORT

Work Order	: **WT2319485**	Page	: 1 of 30
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 30-Jun-2023 09:20
PO	: 73522487	Date Analysis Commenced	: 30-Jun-2023
C-O-C number	: ----	Issue Date	: 14-Jul-2023 13:02
Sampler	: T.HAMILTON 519 725 3313		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Manuel TavaraTello	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 1021983)											
WT2319399-001	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	108	108	0.177%	20%	----
Cyanides (QC Lot: 1030556)											
CG2308585-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.0050	mg/L	<0.0050	<0.0050	0	Diff <2x LOR	----
Cyanides (QC Lot: 1030562)											
WT2319485-001	AG WELL	Cyanide, strong acid dissociable (Total)	----	E333	0.0050	mg/L	<0.0050	<0.0050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1018942)											
WT2319396-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0032	0.0028	0.0004	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.10 µg/L	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.22 µg/L	0.00021	0.000005	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	143 µg/L	0.149	3.87%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.020 µg/L	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	25 µg/L	0.027	0.001	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	0.0122 µg/L	0.0000134	0.0000012	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	128	130	2.20%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	0.58 µg/L	0.00056	0.00003	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	0.11 µg/L	0.00011	0.000005	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	1.30 µg/L	0.00136	0.00006	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.050 µg/L	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0154	0.0160	3.29%	20%	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	37.8	37.8	0.0641%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00854	0.00897	4.90%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	1.79 µg/L	0.00182	1.83%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.61 µg/L	0.00061	0.000004	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	1.88	1.93	2.57%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00099	0.00100	0.00001	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1018942) - continued											
WT2319396-001	Anonymous	Selenium, dissolved	7782-49-2	E421	0.000500	mg/L	<0.500 µg/L	0.000587	0.000087	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	8.36	8.76	4.63%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.010 µg/L	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	103000 µg/L	103	0.263%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.593	0.585	1.32%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	13.1	13.0	0.401%	20%	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	0.011 µg/L	0.000011	0.0000001	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	0.00021	0.00021	0.000004	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	2.32 µg/L	0.00234	1.21%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	1.8 µg/L	0.0018	0.00004	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1020691)											
WT2319396-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1020794)											
CG2308701-011	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	0.00232	0.00233	0.000009	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1020702)											
WT2319329-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	25	23	2	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1020702) - continued											
WT2319329-001	Anonymous	Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1022064)											
WT2319439-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1022064) - continued											
WT2319439-001	Anonymous	Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1023702)											
WT2319782-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	2.90	2.74	0.16	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	0.99	0.98	0.01	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	4.06	3.94	3.00%	30%	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	58.6	57.4	2.14%	30%	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1023702) - continued											
WT2319782-001	Anonymous	Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	4.36	4.25	2.56%	30%	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1020703)											
WT2319329-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1022065)											
WT2319439-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients (QCLot: 1021983)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 1030556)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Cyanides (QCLot: 1030562)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 1018942)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1018942) - continued						
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 1020691)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1020794)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1020507)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 1020593)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Volatile Organic Compounds (QCLot: 1020702)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1020702) - continued						
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Volatile Organic Compounds (QCLot: 1022064)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1022064) - continued						
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Volatile Organic Compounds (QCLot: 1023702)						
Acetone	67-64-1	E611D	20	µg/L	<20	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued						
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued						
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1020703)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 1022065)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 1022653)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1022654)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	# 0.0052	MB-LOR
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Phthalate Esters (QCLot: 1030246)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Phthalate Esters (QCLot: 1032110)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Semi-Volatile Organics (QCLot: 1030246)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1032110)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 1030246)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Chlorinated Phenolics (QCLot: 1032110)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Non-Chlorinated Phenolics (QCLot: 1030246)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Non-Chlorinated Phenolics (QCLot: 1030246) - continued						
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1032110)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----

Qualifiers

Qualifier	Description
MB-LOR	*Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.*

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1021983)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	98.6	90.0	110	----
Cyanides (QCLot: 1030556)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	85.7	80.0	120	----
Cyanides (QCLot: 1030562)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	81.6	80.0	120	----
Dissolved Metals (QCLot: 1018942)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	96.2	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	97.7	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	107	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	102	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	101	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	101	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	96.4	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	103	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	102	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.0025 mg/L	98.4	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	100	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	100	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	100	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	99.3	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	103	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.0125 mg/L	102	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	102	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.0125 mg/L	102	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	99.4	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	100	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	108	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	96.7	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	106	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	106	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	100	60.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 1018942) - continued									
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	93.9	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	105	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.0125 mg/L	98.8	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	105	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	100	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	105	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	101	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	101	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.0125 mg/L	99.8	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	102	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	104	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	100	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	101	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	96.9	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	97.0	80.0	120	----
Speciated Metals (QCLot: 1020794)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	95.8	80.0	120	----
Aggregate Organics (QCLot: 1020507)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	87.1	70.0	130	----
Aggregate Organics (QCLot: 1020593)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	99.3	70.0	130	----
Volatile Organic Compounds (QCLot: 1020702)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	92.8	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	93.7	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	113	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	121	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	95.6	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	87.9	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1020702) - continued									
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	103	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	92.1	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	112	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	101	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	99.1	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	97.6	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	94.5	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	112	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	120	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	76.5	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	77.5	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	93.3	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	120	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	118	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	91.1	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	116	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	120	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	109	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	113	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	108	70.0	130	----
Volatile Organic Compounds (QCLot: 1022064)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	111	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	97.8	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	111	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	108	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1022064) - continued									
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	96.8	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	103	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	95.5	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	112	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	107	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	101	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	115	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	105	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	93.0	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	99.1	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	109	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	103	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	110	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	109	70.0	130	----
Volatile Organic Compounds (QCLot: 1023702)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	99.5	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued									
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	99.7	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	95.5	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	108	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	107	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	91.6	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	90.6	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	98.7	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	93.2	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	98.1	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	98.9	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	93.7	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	91.9	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	115	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	82.2	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	83.7	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	98.8	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	96.5	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	92.9	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	107	60.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued									
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	108	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	109	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	105	70.0	130	----
Hydrocarbons (QCLot: 1020703)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	98.0	80.0	120	----
Hydrocarbons (QCLot: 1022065)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	102	80.0	120	----
Hydrocarbons (QCLot: 1022653)									
F2 (C10-C16)	----	E601.SG	100	µg/L	3879.32 µg/L	80.2	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	7754.95 µg/L	85.2	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4176.89 µg/L	85.9	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1022654)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	92.5	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	95.8	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	96.4	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	88.2	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	101	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	107	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	94.2	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	99.3	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	95.4	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	89.4	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	100	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	93.5	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	95.6	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	87.4	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	84.6	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	88.4	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	90.1	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	101	50.0	140	----
Phthalate Esters (QCLot: 1030246)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	123	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	91.6	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Phthalate Esters (QCLot: 1030246) - continued									
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	92.1	50.0	140	----
Phthalate Esters (QCLot: 1032110)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	117	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	101	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	91.8	50.0	140	----
Semi-Volatile Organics (QCLot: 1030246)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	93.2	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	83.1	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	86.7	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	40.8	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	41.1	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	99.1	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	95.6	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	90.5	50.0	140	----
Semi-Volatile Organics (QCLot: 1032110)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	87.6	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	93.2	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	96.7	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	38.0	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	38.1	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	122	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	111	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	75.7	50.0	140	----
Chlorinated Phenolics (QCLot: 1030246)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	81.3	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	91.3	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	95.2	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	102	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	95.5	50.0	140	----
Chlorinated Phenolics (QCLot: 1032110)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	86.5	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	88.1	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	102	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	96.0	50.0	140	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Chlorinated Phenolics (QCLot: 1032110) - continued									
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	87.3	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1030246)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	83.4	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	94.9	50.0	140	----
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	108	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1032110)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	96.9	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	127	50.0	140	----
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	104	50.0	140	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1021983)										
WT2319399-001	Anonymous	Chloride	16887-00-6	E235.Cl	ND mg/L	100 mg/L	ND	75.0	125	----
Cyanides (QCLot: 1030556)										
CG2308585-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.220 mg/L	0.25 mg/L	88.1	75.0	125	----
Cyanides (QCLot: 1030562)										
WT2319485-001	AG WELL	Cyanide, strong acid dissociable (Total)	----	E333	0.237 mg/L	0.25 mg/L	94.8	75.0	125	----
Dissolved Metals (QCLot: 1018942)										
WT2319396-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0951 mg/L	0.1 mg/L	95.1	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0492 mg/L	0.05 mg/L	98.3	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0629 mg/L	0.05 mg/L	126	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.00527 mg/L	0.005 mg/L	105	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0445 mg/L	0.05 mg/L	89.0	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.049 mg/L	0.05 mg/L	97.4	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00503 mg/L	0.005 mg/L	101	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00250 mg/L	0.0025 mg/L	100	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0125 mg/L	0.0125 mg/L	100	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0122 mg/L	0.0125 mg/L	97.2	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0116 mg/L	0.0125 mg/L	93.1	70.0	130	----
		Iron, dissolved	7439-89-6	E421	0.048 mg/L	0.05 mg/L	96.2	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0242 mg/L	0.025 mg/L	96.9	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.0118 mg/L	0.0125 mg/L	94.6	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0127 mg/L	0.0125 mg/L	102	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0234 mg/L	0.025 mg/L	93.8	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	0.594 mg/L	0.5 mg/L	119	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	2.57 mg/L	2.5 mg/L	103	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.00518 mg/L	0.005 mg/L	104	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0550 mg/L	0.05 mg/L	110	70.0	130	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 1018942) - continued										
WT2319396-002	Anonymous	Silicon, dissolved	7440-21-3	E421	ND mg/L	0.5 mg/L	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00445 mg/L	0.005 mg/L	89.1	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.00568 mg/L	0.005 mg/L	114	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0498 mg/L	0.05 mg/L	99.6	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.00449 mg/L	0.005 mg/L	89.8	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0249 mg/L	0.025 mg/L	99.4	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0126 mg/L	0.0125 mg/L	101	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.00500 mg/L	0.005 mg/L	99.9	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	0.00025 mg/L	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0256 mg/L	0.025 mg/L	102	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.0236 mg/L	0.025 mg/L	94.6	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.00486 mg/L	0.005 mg/L	97.1	70.0	130	----
Dissolved Metals (QCLot: 1020691)										
WT2319396-002	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000898 mg/L	0.0001 mg/L	89.8	70.0	130	----
Speciated Metals (QCLot: 1020794)										
CG2308701-011	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0397 mg/L	0.04 mg/L	99.3	70.0	130	----
Volatile Organic Compounds (QCLot: 1020702)										
WT2319329-001	Anonymous	Acetone	67-64-1	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Benzene	71-43-2	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Bromoform	75-25-2	E611D	94.3 µg/L	100 µg/L	94.3	60.0	140	----
		Bromomethane	74-83-9	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	108 µg/L	100 µg/L	108	60.0	140	----
		Chlorobenzene	108-90-7	E611D	100.0 µg/L	100 µg/L	100.0	60.0	140	----
		Chloroform	67-66-3	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	95.3 µg/L	100 µg/L	95.3	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	91.8 µg/L	100 µg/L	91.8	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	99.8 µg/L	100 µg/L	99.8	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	81.4 µg/L	100 µg/L	81.4	60.0	140	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1020702) - continued										
WT2319329-001	Anonymous	Dichloroethane, 1,1-	75-34-3	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	96.2 µg/L	100 µg/L	96.2	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	99.3 µg/L	100 µg/L	99.3	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	99.4 µg/L	100 µg/L	99.4	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Dichloromethane	75-09-2	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	95.0 µg/L	100 µg/L	95.0	60.0	140	----
		Ethylbenzene	100-41-4	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Hexane, n-	110-54-3	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	92 µg/L	100 µg/L	91.5	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	88 µg/L	100 µg/L	87.9	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Styrene	100-42-5	E611D	98.3 µg/L	100 µg/L	98.3	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	95.4 µg/L	100 µg/L	95.4	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Toluene	108-88-3	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	93.6 µg/L	100 µg/L	93.6	60.0	140	----
		Trichloroethylene	79-01-6	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Vinyl chloride	75-01-4	E611D	93.2 µg/L	100 µg/L	93.2	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	204 µg/L	200 µg/L	102	60.0	140	----
		Xylene, o-	95-47-6	E611D	100 µg/L	100 µg/L	100	60.0	140	----
Volatile Organic Compounds (QCLot: 1022064)										
WT2319439-001	Anonymous	Acetone	67-64-1	E611D	116 µg/L	100 µg/L	116	60.0	140	----
		Benzene	71-43-2	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Bromoform	75-25-2	E611D	96.2 µg/L	100 µg/L	96.2	60.0	140	----
		Bromomethane	74-83-9	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	100.0 µg/L	100 µg/L	100.0	60.0	140	----
		Chlorobenzene	108-90-7	E611D	98.0 µg/L	100 µg/L	98.0	60.0	140	----
		Chloroform	67-66-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1022064) - continued										
WT2319439-001	Anonymous	Dibromochloromethane	124-48-1	E611D	95.1 µg/L	100 µg/L	95.1	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	98.3 µg/L	100 µg/L	98.3	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	98.4 µg/L	100 µg/L	98.4	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	80.8 µg/L	100 µg/L	80.8	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	87.2 µg/L	100 µg/L	87.2	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	98.6 µg/L	100 µg/L	98.6	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	98.2 µg/L	100 µg/L	98.2	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichloromethane	75-09-2	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	99.8 µg/L	100 µg/L	99.8	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Ethylbenzene	100-41-4	E611D	98.5 µg/L	100 µg/L	98.5	60.0	140	----
		Hexane, n-	110-54-3	E611D	86.4 µg/L	100 µg/L	86.4	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	97 µg/L	100 µg/L	97.5	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Styrene	100-42-5	E611D	97.0 µg/L	100 µg/L	97.0	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	97.1 µg/L	100 µg/L	97.1	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	110 µg/L	100 µg/L	110	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	93.1 µg/L	100 µg/L	93.1	60.0	140	----
		Toluene	108-88-3	E611D	97.9 µg/L	100 µg/L	97.9	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	97.5 µg/L	100 µg/L	97.5	60.0	140	----
		Trichloroethylene	79-01-6	E611D	96.7 µg/L	100 µg/L	96.7	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	98.5 µg/L	100 µg/L	98.5	60.0	140	----
		Vinyl chloride	75-01-4	E611D	92.3 µg/L	100 µg/L	92.3	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	203 µg/L	200 µg/L	101	60.0	140	----
		Xylene, o-	95-47-6	E611D	102 µg/L	100 µg/L	102	60.0	140	----
Volatile Organic Compounds (QCLot: 1023702)										
WT2319782-001	Anonymous	Acetone	67-64-1	E611D	96 µg/L	100 µg/L	95.6	60.0	140	----
		Benzene	71-43-2	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----

Sub-Matrix: **Water**

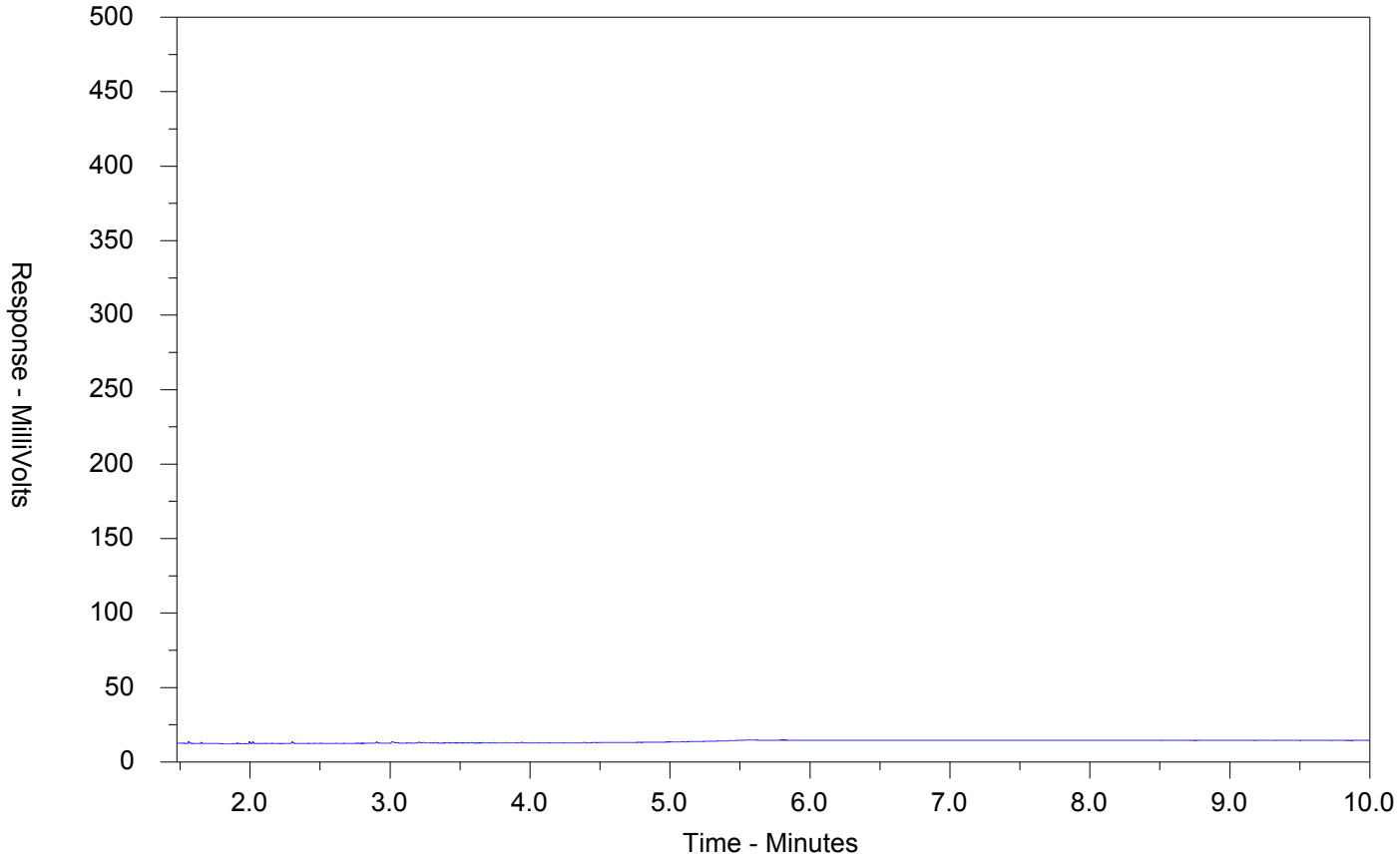
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued										
WT2319782-001	Anonymous	Bromodichloromethane	75-27-4	E611D	95.4 µg/L	100 µg/L	95.4	60.0	140	----
		Bromoform	75-25-2	E611D	91.4 µg/L	100 µg/L	91.4	60.0	140	----
		Bromomethane	74-83-9	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	95.8 µg/L	100 µg/L	95.8	60.0	140	----
		Chlorobenzene	108-90-7	E611D	95.2 µg/L	100 µg/L	95.2	60.0	140	----
		Chloroform	67-66-3	E611D	94.9 µg/L	100 µg/L	94.9	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	87.0 µg/L	100 µg/L	87.0	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	86.8 µg/L	100 µg/L	86.8	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	95.5 µg/L	100 µg/L	95.5	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	95.1 µg/L	100 µg/L	95.1	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	94.2 µg/L	100 µg/L	94.2	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	83.0 µg/L	100 µg/L	83.0	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	97.4 µg/L	100 µg/L	97.4	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	90.3 µg/L	100 µg/L	90.3	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	98.8 µg/L	100 µg/L	98.8	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	95.9 µg/L	100 µg/L	95.9	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		Dichloromethane	75-09-2	E611D	93.0 µg/L	100 µg/L	93.0	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	89.4 µg/L	100 µg/L	89.4	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	86.3 µg/L	100 µg/L	86.3	60.0	140	----
		Ethylbenzene	100-41-4	E611D	94.8 µg/L	100 µg/L	94.8	60.0	140	----
		Hexane, n-	110-54-3	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	79 µg/L	100 µg/L	79.2	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	84 µg/L	100 µg/L	84.0	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140	----
		Styrene	100-42-5	E611D	91.1 µg/L	100 µg/L	91.1	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	93.8 µg/L	100 µg/L	93.8	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	93.6 µg/L	100 µg/L	93.6	60.0	140	----
		Toluene	108-88-3	E611D	92.9 µg/L	100 µg/L	92.9	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	88.8 µg/L	100 µg/L	88.8	60.0	140	----
		Trichloroethylene	79-01-6	E611D	96.9 µg/L	100 µg/L	96.9	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	95.1 µg/L	100 µg/L	95.1	60.0	140	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued										
WT2319782-001	Anonymous	Vinyl chloride	75-01-4	E611D	95.2 µg/L	100 µg/L	95.2	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	193 µg/L	200 µg/L	96.6	60.0	140	----
		Xylene, o-	95-47-6	E611D	95.4 µg/L	100 µg/L	95.4	60.0	140	----
Hydrocarbons (QCLot: 1020703)										
WT2319329-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1760 µg/L	2000 µg/L	87.8	60.0	140	----
Hydrocarbons (QCLot: 1022065)										
WT2319439-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1900 µg/L	2000 µg/L	95.2	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-001-E601.SG
Client Sample ID: AG WELL



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

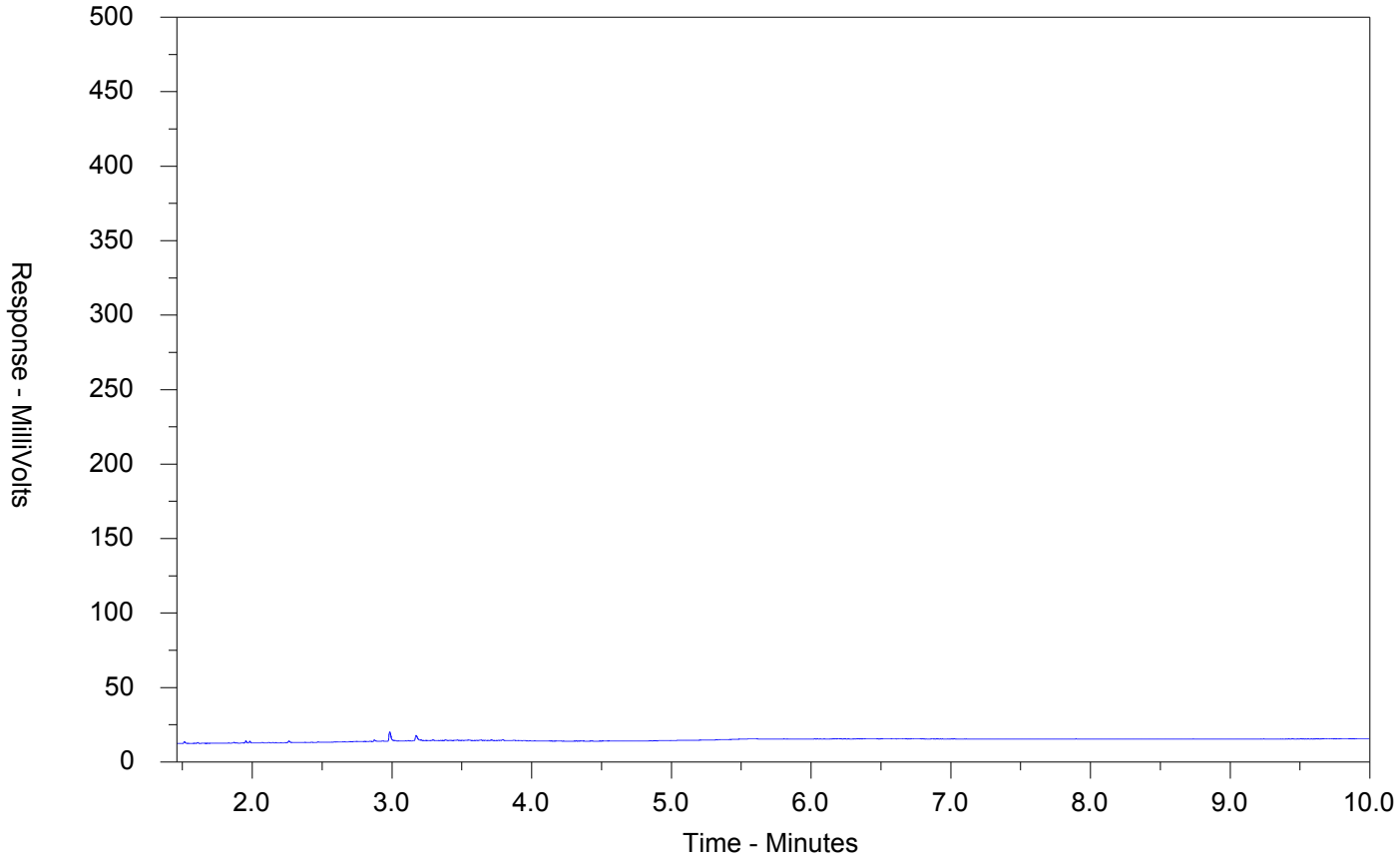
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-002-E601.SG
Client Sample ID: APP WELL



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

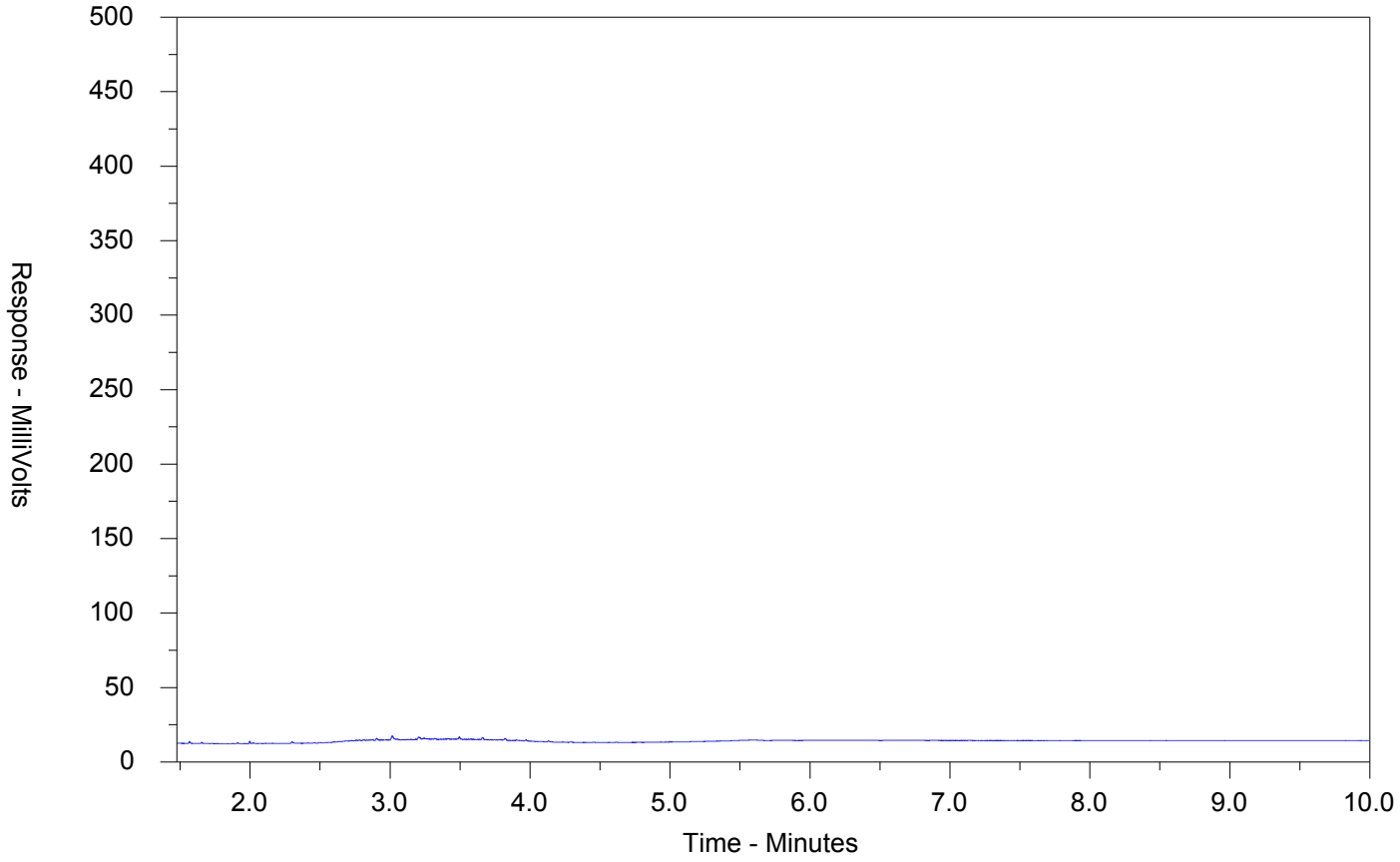
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-003-E601.SG
Client Sample ID: MW1-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

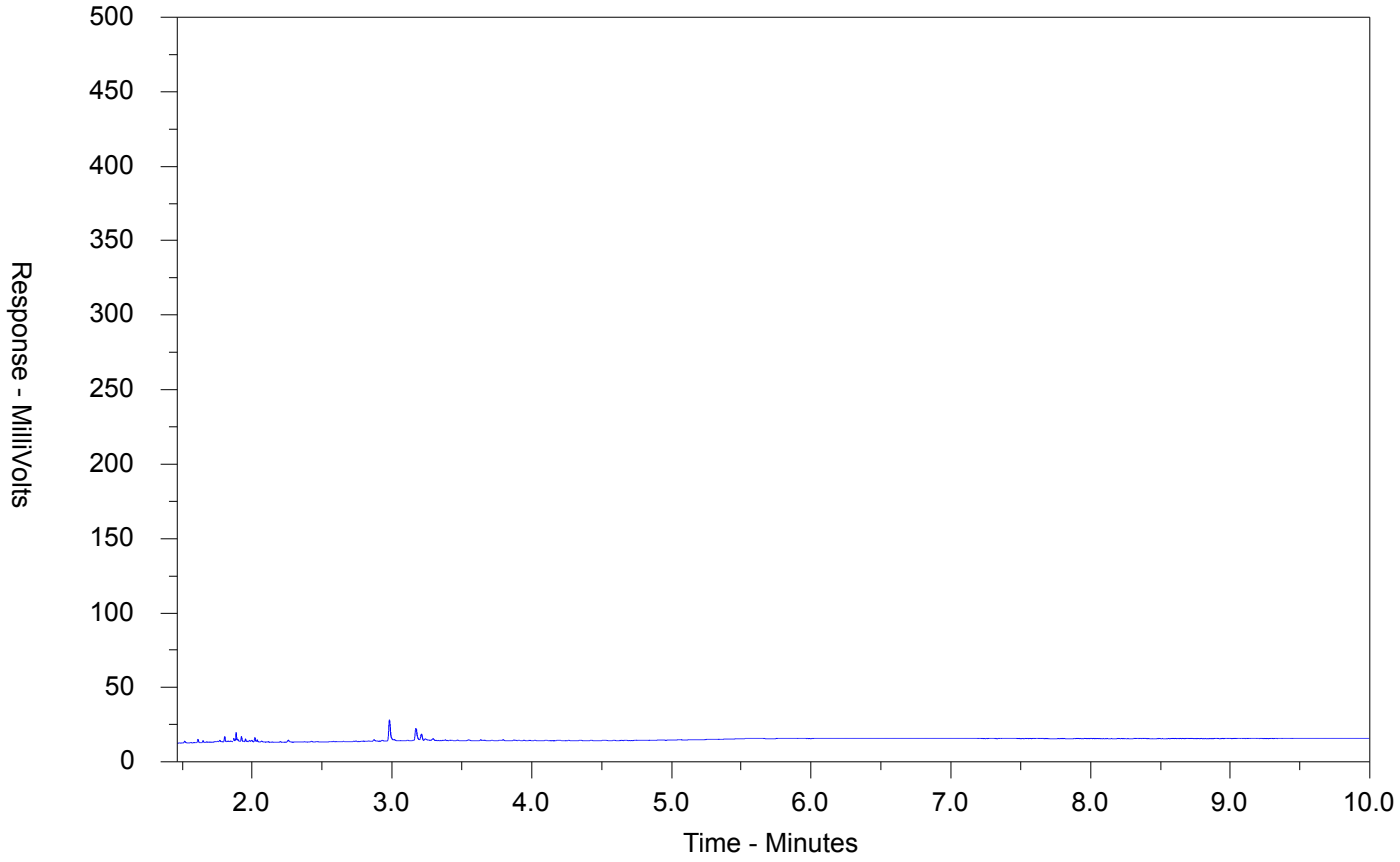
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-004-E601.SG
Client Sample ID: MW4-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

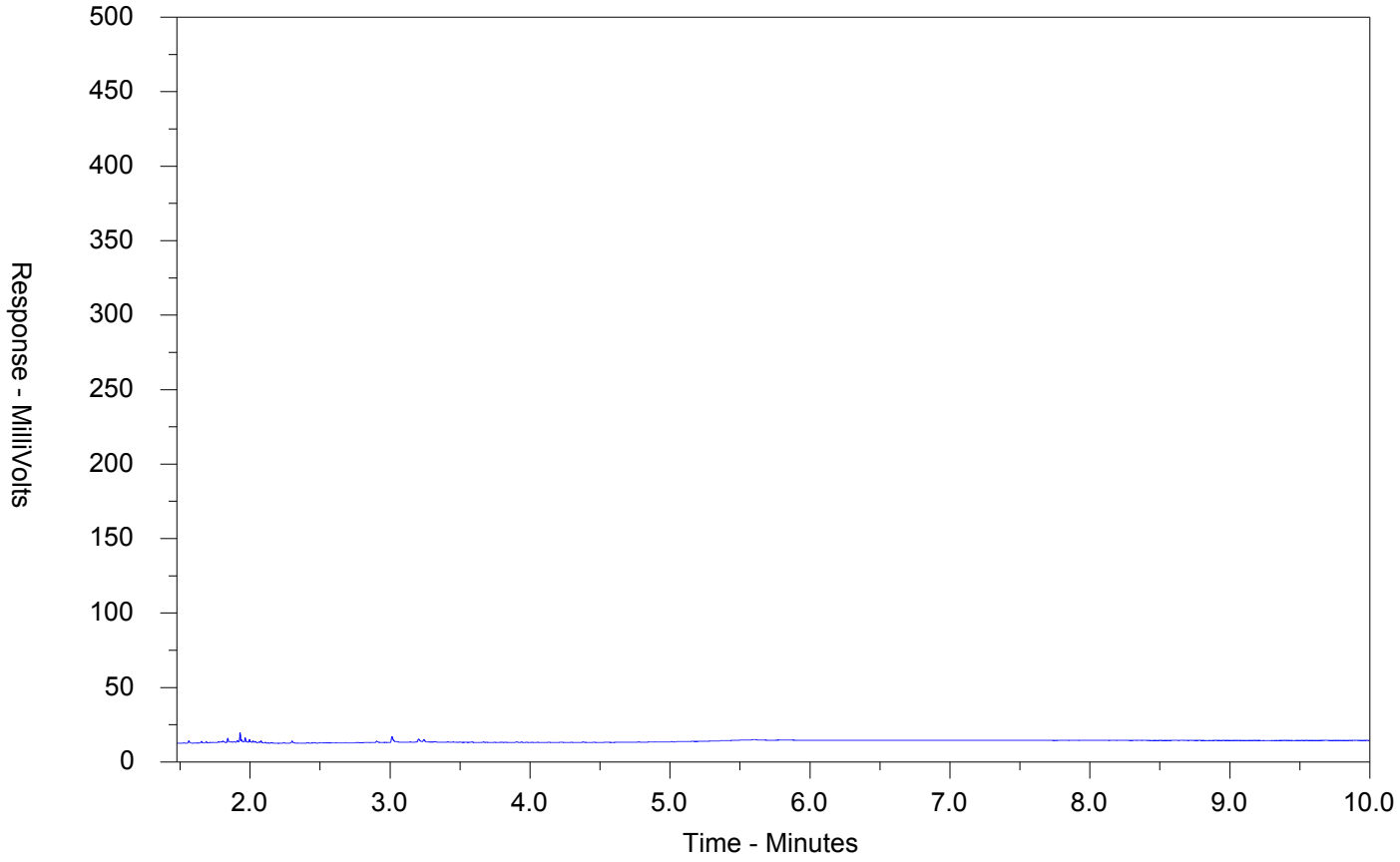
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-005-E601.SG
Client Sample ID: MW4-23X



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

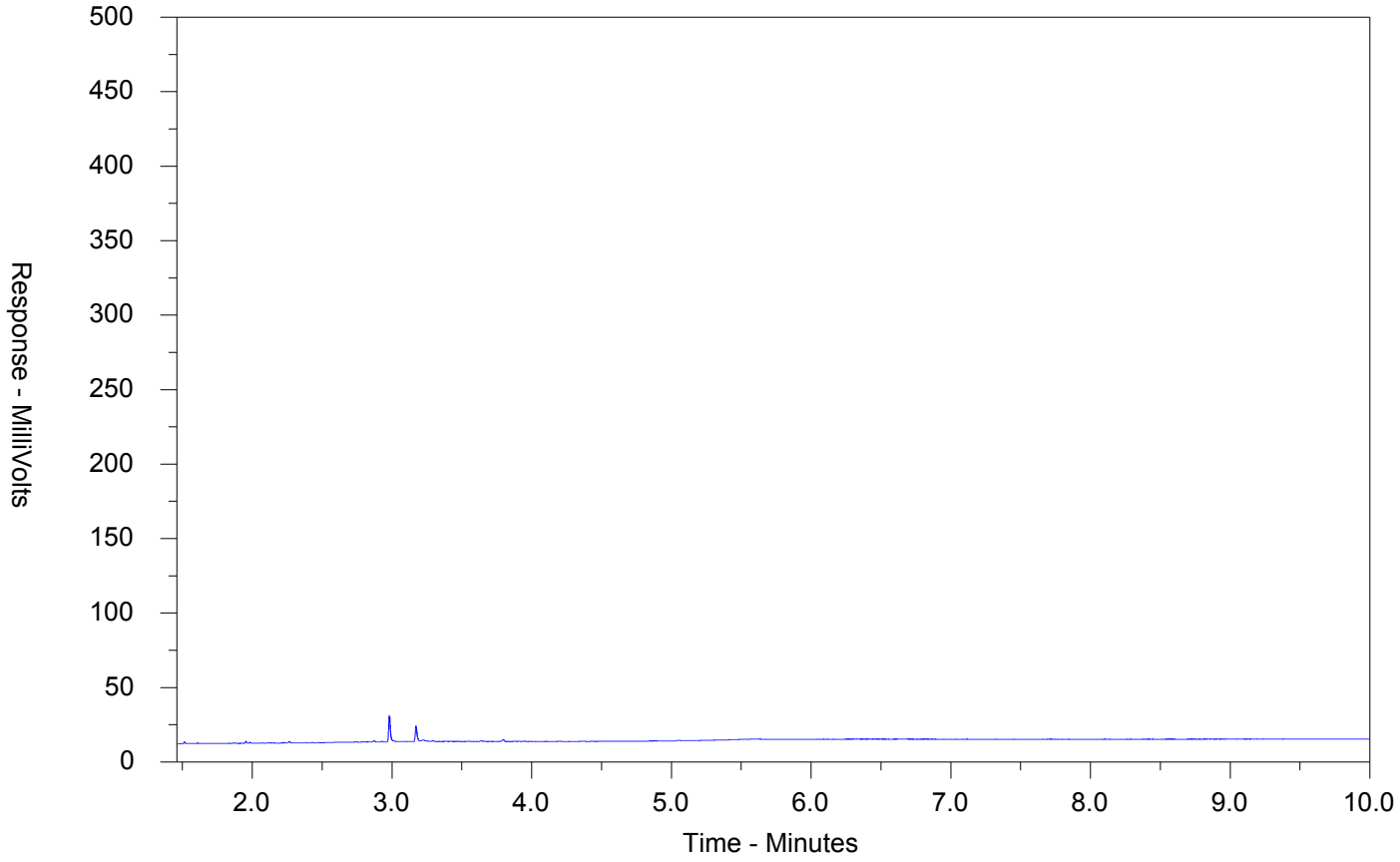
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-006-E601.SG
Client Sample ID: FB1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

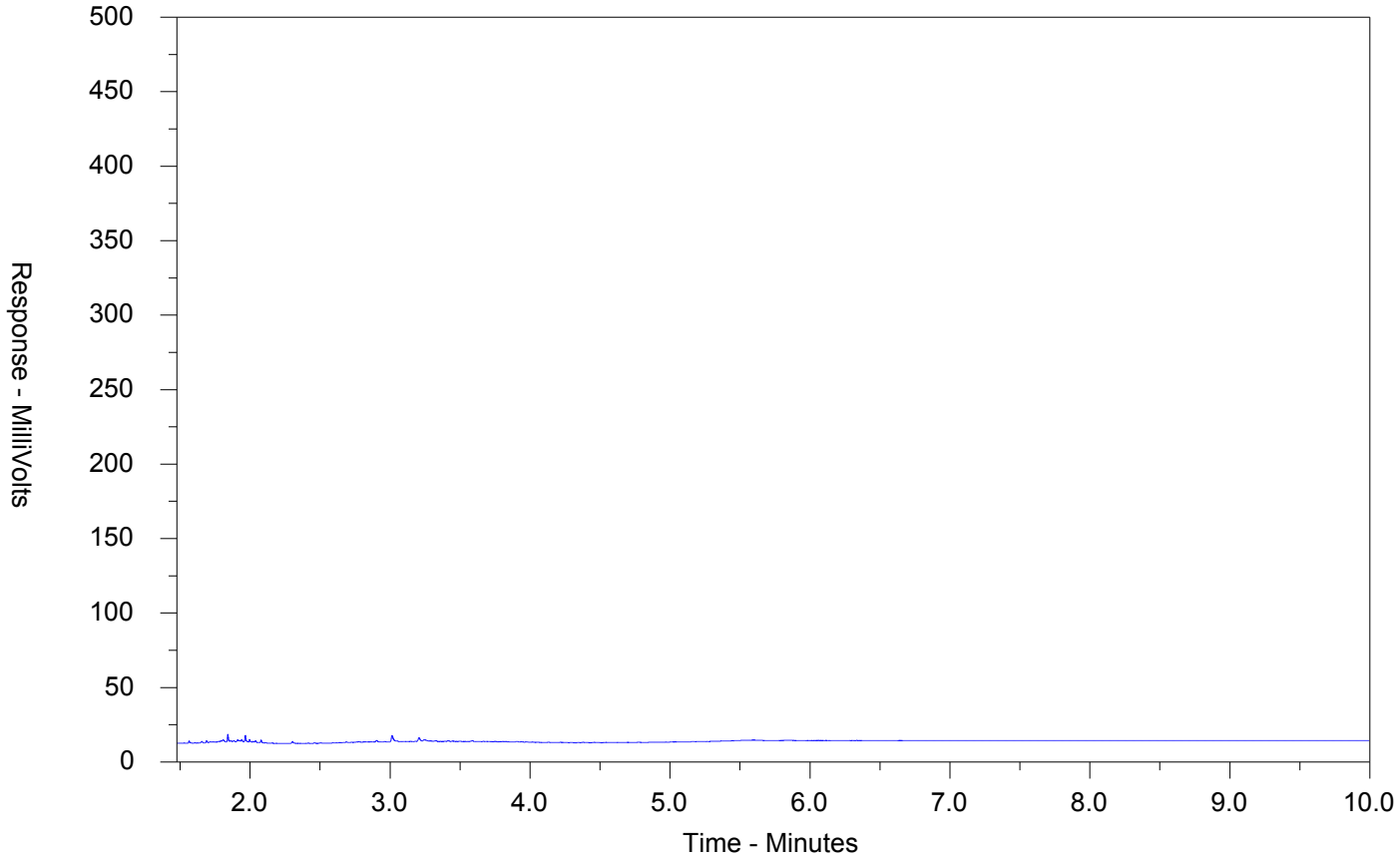
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-007-E601.SG
Client Sample ID: MW5-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

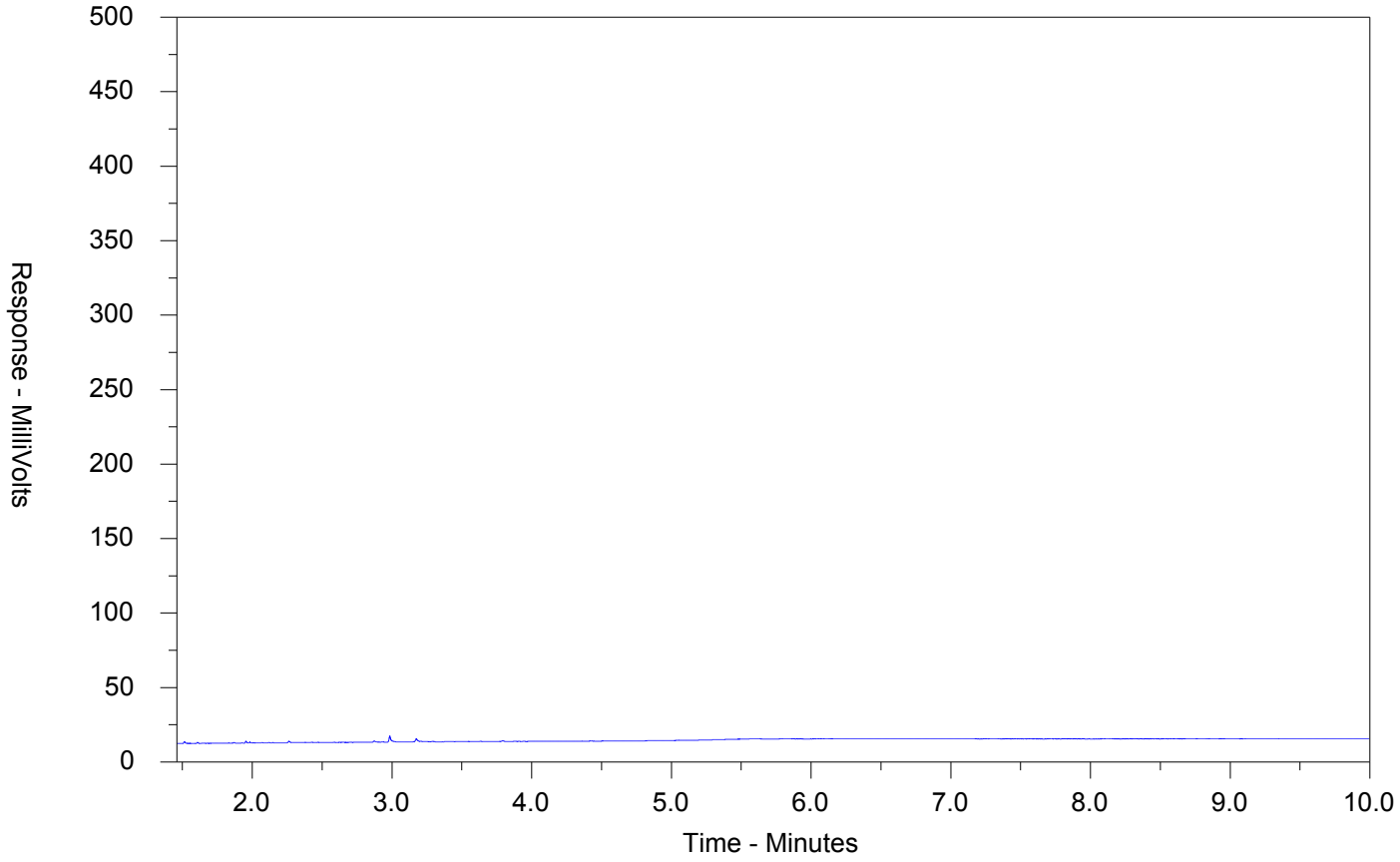
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-008-E601.SG
Client Sample ID: MW2-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

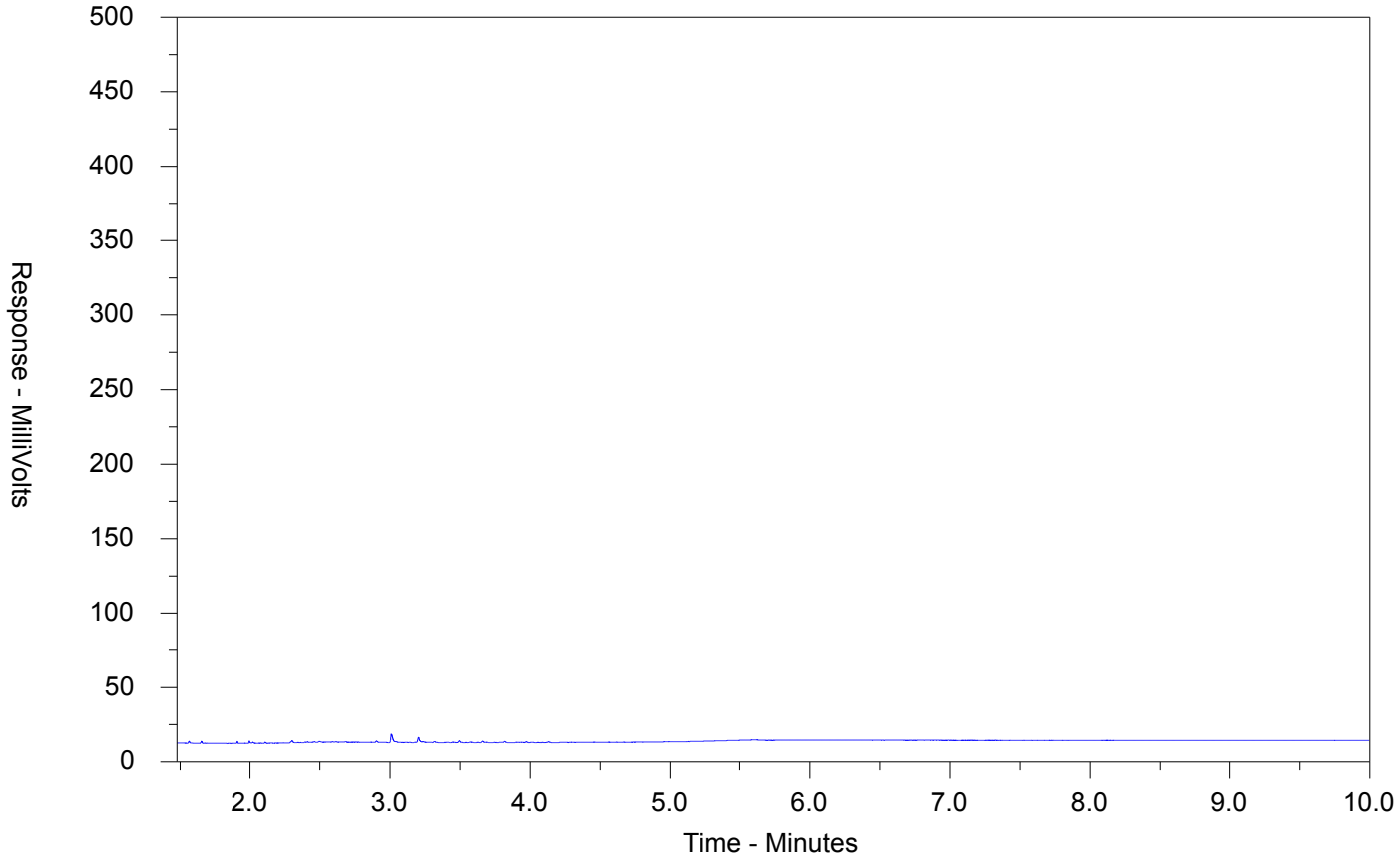
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-009-E601.SG
Client Sample ID: MW3-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

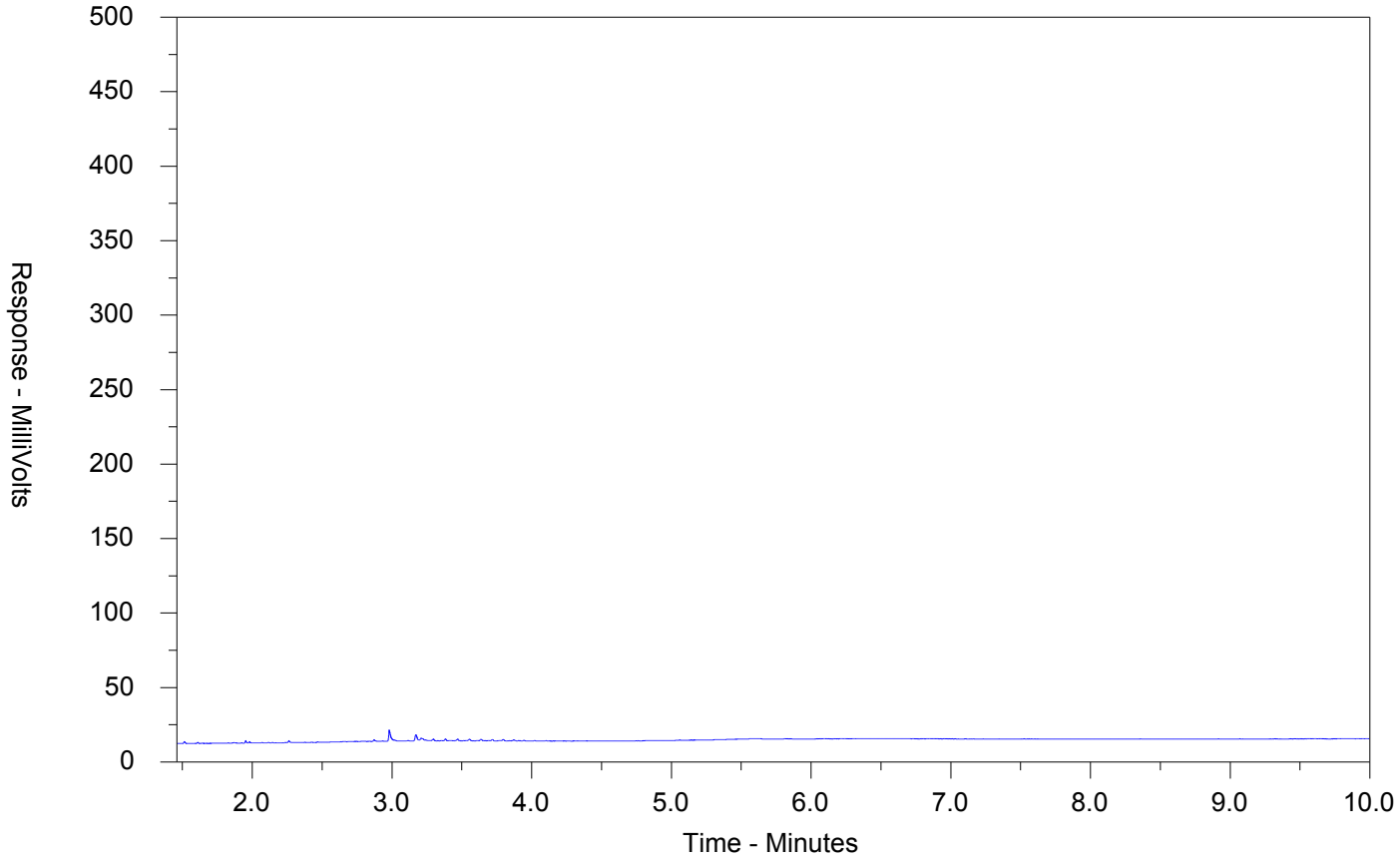
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-010-E601.SG
Client Sample ID: BH213



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

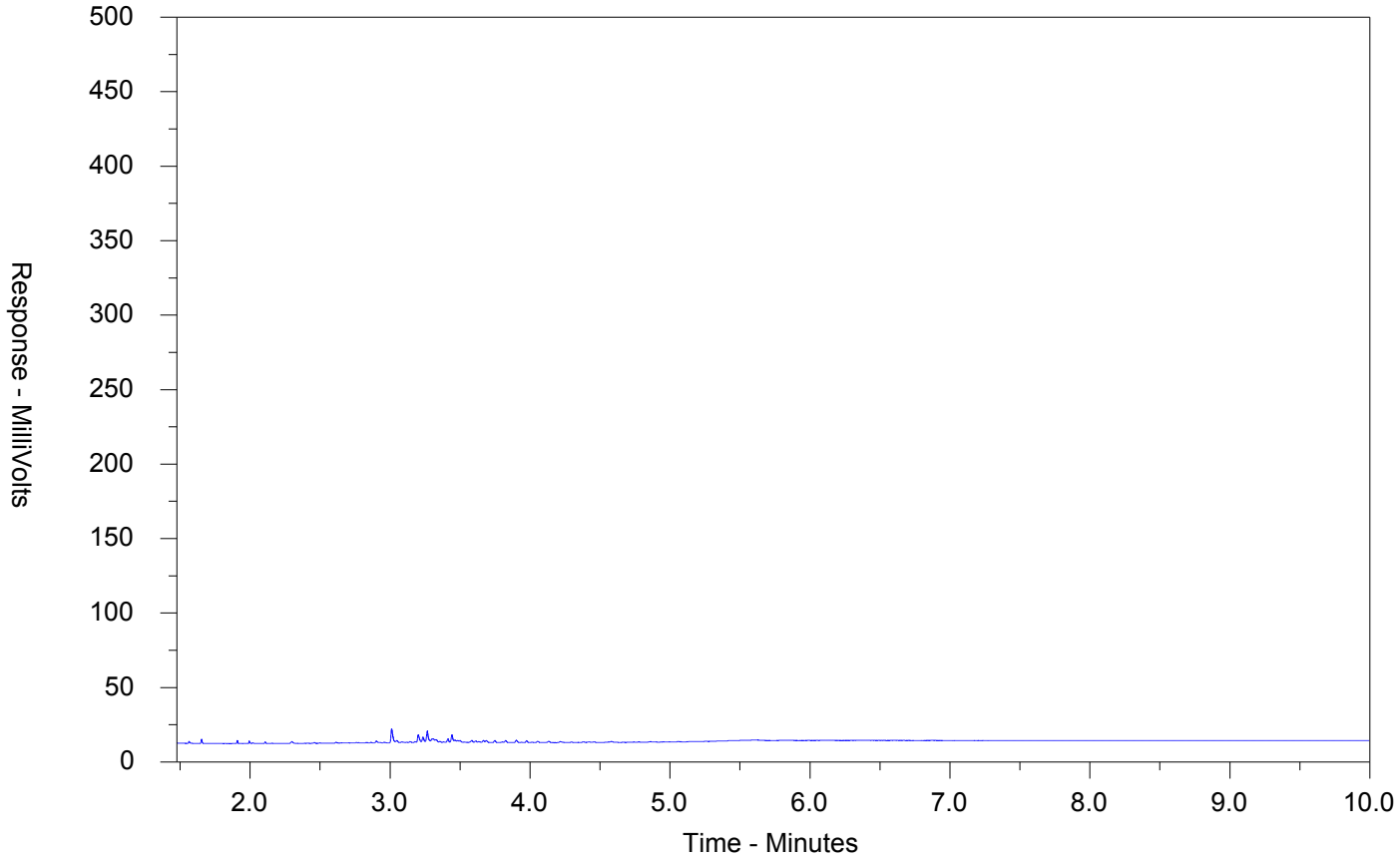
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-011-E601.SG
Client Sample ID: BH214



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

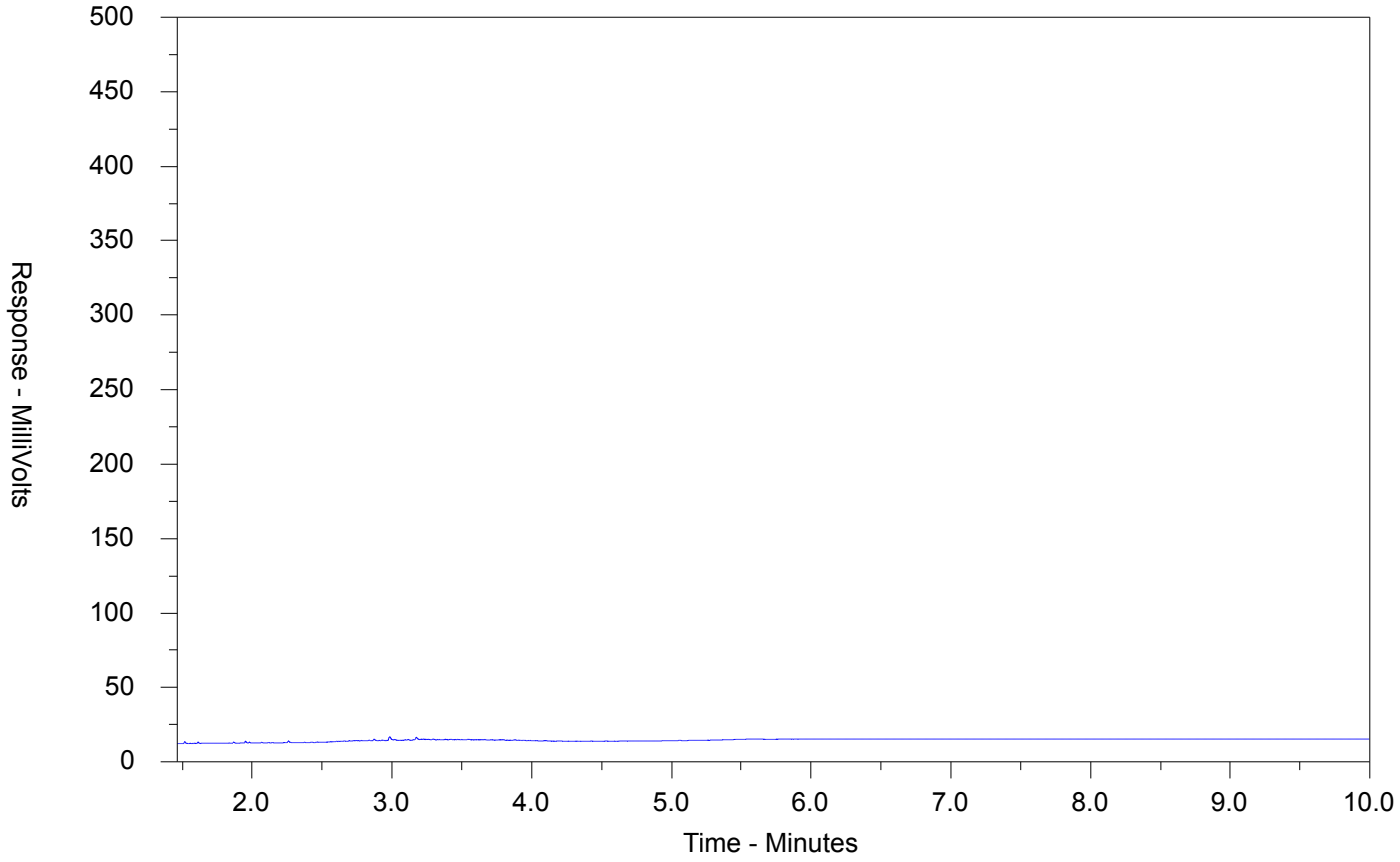
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-012-E601.SG
Client Sample ID: BH219



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

US-306/307 VW-274 GLC-219
OGG-691/692 SC-384
OR-839 CN-180
MM-230

ALS www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Canada Toll Free: 1 800 668 9878

Page

Environmental Division Waterloo
Work Order Reference
WT2319485

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax pascal.renella@ghd.com
Email 2 See SSOW/PO
Email 3

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax accountspayableCDN@ghd.com
Email 2

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Add fees may apply to rush resuests on weekends, statutory holidays and non routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information

ALS Account # / Quote #:	GHDL100 / WT2022GHDL1000018
Job #:	11210029
PO / AFE:	73522487
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2319485
ALS Contact: Rick H
Sampler: T Hamilton

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	GROUNDWATER ANALYSIS	Dissolved Metals (Field Filter)	Dissolved Mercury (Field Filter)	Dissolved hexavalent Chromium (F/P)	Total Cyanide	Total Oil and Grease	Chloride	VOC,PHC F1-F4	SVOCs (including PAHs)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
							F/P	F/P	F/P	P	P		P	P			
	AG WELL	28-Jun-23	12:20	Water	13	R	R	R	R	R	R	R	R	R			
	APP WELL	28-Jun-23	12:50														
	MW1-20	28-Jun-23	14:50														
	MW4-23	29-Jun-23	10:30														
	MW4-23X		10:30														
	FB1		10:35														
	MW5-23		11:10														
	MW2-20		12:00														
	MW3-20		13:00														
	BH213		14:00														
	BH214		15:00														
	BH219		16:15														

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO
Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

Metals, mercury + Cr6+ are field filtered
Many samples are silty/sandy.

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C			
		-2.3	-1.2	-0.7	0.4	-1.2	-1.1

SHIPMENT RELEASE (client use)

Released by: Date: 06/30/23 Time: 9:10

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: Date: 6/30/23 Time: 9:20

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2328938**	Page	: 1 of 46
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029-01	Date Samples Received	: 11-Sep-2023 15:40
PO	: 73522487	Date Analysis Commenced	: 11-Sep-2023
C-O-C number	: 20-	Issue Date	: 18-Sep-2023 15:03
Sampler	: Keegan Cleghorn		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Inorganics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Metals, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Sample Comments

Sample	Client Id	*Comment*
WT2328938-001	APP Well	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-002	MW-01	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-003	AG Well	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-004	MW-02	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-005	MW4-23	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-006	MW5-23	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-007	BH213	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-008	BH219	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-009	MW-03	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-010	MW-03DUP	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.

WT2328938-011	FB	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
HSED	*High sediment content in submitted water sample. Analysis could only proceed using aqueous fraction after decanting. Results may be biased low and may be inappropriate for regulatory or compliance purposes.*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*

Analytical Results

WT2328938-001

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: APP Well

Client sampling date / time: 11-Sep-2023 08:50

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients									
Chloride	16887-00-6	4.72		0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals									
Mercury, total	7439-97-6	<0.0000050		0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589
Dissolved Metals									
Aluminum, dissolved	7429-90-5	<0.0100	DLM,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00100	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00597	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0723	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000200	DLM,	0.000200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000500	DLM,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	<0.100	DLM,	0.100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000500	DLM,	0.0000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	49.9	DLM,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000100	DLM,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00500	DLM,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00100	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	<0.00200	DLM,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	0.246	DLM,	0.100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000500	DLM,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	<0.0100	DLM,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	29.6	DLM,	0.0500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00737	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000753	DLM,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00500	DLM,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.500	DLM,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.14	DLM,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	<0.00200	DLM,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	<0.000500	DLM,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	7.99	DLM,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000100	DLM,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	6.57	DLM,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.329	DLM,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	7.16	DLM,	5.00	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00200	DLM,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000100	DLM,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00100	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00100	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00300	DLM,	0.00300	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00100	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000607	DLM,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00500	DLM,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	<0.0100	DLM,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00300	DLM,	0.00300	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APP Well
Client sampling date / time: 11-Sep-2023 08:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APP Well
Client sampling date / time: 11-Sep-2023 08:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.2	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	100	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.4	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	98.4	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	107	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	111	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	105	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								

Analytical Results

WT2328938-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: APP Well
Client sampling date / time: 11-Sep-2023 08:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.7	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	85.2	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Terphenyl-d14, p-	1718-51-0	107	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	85.7	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-01
Client sampling date / time: 11-Sep-2023 09:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	78.7	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000235	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589

Analytical Results

WT2328938-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-01
Client sampling date / time: 11-Sep-2023 09:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0070	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00025	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0760	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.036	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	0.0000506	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	147	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00148	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	0.000065	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0017	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	43.1	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00238	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000191	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	12.7	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00068	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000861	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	5.30	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	28.1	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.177	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	14.0	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	0.000015	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000361	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0154	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								

Analytical Results

WT2328938-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-01
Client sampling date / time: 11-Sep-2023 09:20

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0		1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons									
F1 (C6-C10)	----	<25		25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821

Analytical Results

WT2328938-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-01

Client sampling date / time: 11-Sep-2023 09:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	82.8	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	89.0	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	95.2	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	96.2	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	0.039	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	0.032	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.012	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	107	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Analytical Results

WT2328938-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-01

Client sampling date / time: 11-Sep-2023 09:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	83.8	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	86.4	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Terphenyl-d14, p-	1718-51-0	99.6	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	89.9	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AG Well

Client sampling date / time: 11-Sep-2023 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	18.5	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00462	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0471	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG Well
Client sampling date / time: 11-Sep-2023 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	63.4	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00388	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	0.537	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0043	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	39.2	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.0120	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000430	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.13	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00021	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	9.74	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	7.80	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.122	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	17.8	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000158	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0191	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG Well
Client sampling date / time: 11-Sep-2023 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543

Analytical Results

WT2328938-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG Well
Client sampling date / time: 11-Sep-2023 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.3	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	96.4	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	93.3	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	97.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	114	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	116	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	112	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Analytical Results

WT2328938-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AG Well

Client sampling date / time: 11-Sep-2023 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.7	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	88.2	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Terphenyl-d14, p-	1718-51-0	109	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	86.5	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 11-Sep-2023 10:10

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients									
Chloride	16887-00-6	16.3	DLDS,	2.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals									
Mercury, total	7439-97-6	0.0000165		0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589
Dissolved Metals									
Aluminum, dissolved	7429-90-5	<0.0100	DLHC,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.118	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000200	DLHC,	0.000200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.137	DLHC,	0.100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	0.000177	DLHC,	0.0000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	123	DLHC,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000100	DLHC,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-004

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 11-Sep-2023 10:10

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals									
Chromium, dissolved	7440-47-3	<0.00500	DLHC,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.0239	DLHC,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.100	DLHC,	0.100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	<0.0100	DLHC,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	47.4	DLHC,	0.0500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.127	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	0.00678	DLHC,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.500	DLHC,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	91.0	DLHC,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.0178	DLHC,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	5.00	DLHC,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000100	DLHC,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	13.3	DLHC,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.163	DLHC,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	12.6	DLHC,	5.00	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00200	DLHC,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000100	DLHC,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00300	DLHC,	0.00300	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000598	DLHC,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00500	DLHC,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0370	DLHC,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00300	DLHC,	0.00300	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field		-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-004

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 11-Sep-2023 10:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0 OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40 OWP,	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	81.0	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543

Analytical Results

WT2328938-004

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 11-Sep-2023 10:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	92.4	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	97.9	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	0.011	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	107	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	108	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	105	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	85.3	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	88.7	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Analytical Results

WT2328938-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 11-Sep-2023 10:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	99.4	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	95.1	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 11-Sep-2023 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	10.2	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000144	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0025	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00033	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0730	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	81.7	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	0.00092	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00058	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 11-Sep-2023 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	35.8	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.0168	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.00140	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	3.18	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00033	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000487	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	7.56	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	4.03	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.121	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	5.40	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000839	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	0.00061	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00083	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 11-Sep-2023 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,2-	107-06-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0 OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	0.71 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	0.62 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40 OWP,	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP,	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.8	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	89.9	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	95.3	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	98.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2328938-005

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 11-Sep-2023 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	0.024	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	0.030	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.071	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.041	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	0.019	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	112	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	109	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	85.8	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	90.1	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Terphenyl-d14, p-	1718-51-0	109	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Analytical Results

WT2328938-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 11-Sep-2023 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	99.0	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 11-Sep-2023 11:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	7.45	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000146	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0037	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	0.00011	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00026	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0425	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.016	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	72.0	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	0.00095	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00067	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0015	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	25.7	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00667	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.00120	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 11-Sep-2023 11:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.79	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00160	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000518	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	6.44	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	8.21	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.112	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	3.23	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	0.000013	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000295	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0011	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00083	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0 OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 11-Sep-2023 11:35

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	1.20	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	1.2		1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.0		1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	91.6		1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	92.6		1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	98.1		1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010		0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010		0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010		0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050		0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544

Analytical Results

WT2328938-006

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 11-Sep-2023 11:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.015	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	112	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	111	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	106	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	86.0	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	88.7	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Terphenyl-d14, p-	1718-51-0	101	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Analytical Results

WT2328938-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 11-Sep-2023 11:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Phenol	108-95-2	<0.50 HSED.	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	93.9	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 11-Sep-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	8.12	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000329	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131592
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0023	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00044	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0274	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.015	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	0.0000446	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	60.4	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	0.00104	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00135	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	0.000080	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	21.9	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.516	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000927	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	0.00258	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	2.93	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00084	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	3.72	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 11-Sep-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	2.98	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.0917	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	1.94	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	0.000050	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000218	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0096	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 11-Sep-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.5	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	92.5	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.0	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	97.9	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544

Analytical Results

WT2328938-007

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 11-Sep-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	112	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	116	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.3	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Nitrobenzene-d5	4165-60-0	100	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Terphenyl-d14, p-	1718-51-0	83.5	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	115	0.20	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 11-Sep-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.78	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000167	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131592
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0072	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00022	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.176	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.019	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	0.0000271	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	130	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00059	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	0.011	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	0.000092	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0034	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	55.3	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00184	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000248	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.77	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00126	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000433	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	8.43	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	4.53	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.167	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	15.4	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	0.00036	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000974	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0094	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-008

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 11-Sep-2023 13:00

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals									
Dissolved metals filtration location	----	Field		-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	0.55	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-008

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 11-Sep-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40 OWP.	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30 OWP.	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP.	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.3	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	92.1	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	98.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	0.021	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.047	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.026	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	105	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	114	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	105	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								

Analytical Results

WT2328938-008

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 11-Sep-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	89.2	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Nitrobenzene-d5	4165-60-0	97.0	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Terphenyl-d14, p-	1718-51-0	93.6	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	109	0.20	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-009

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-03

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	6.16	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000235	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131592

Analytical Results

WT2328938-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-03
Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0031	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00050	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0565	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	118	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00053	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0042	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	51.1	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00477	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000607	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.37	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00083	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000100	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	8.34	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	4.97	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.173	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	7.59	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.00100	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	0.00120	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								

Analytical Results

WT2328938-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-03
Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0		1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821

Analytical Results

WT2328938-009

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-03

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.4	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	84.0	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	90.8	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	98.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	0.040	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	0.029	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	0.015	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	0.020	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	0.017	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	0.035	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	0.021	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.048	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.027	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	0.046	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	106	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	111	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	109	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Analytical Results

WT2328938-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-03

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	94.1	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Nitrobenzene-d5	4165-60-0	102	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Terphenyl-d14, p-	1718-51-0	93.1	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	116	0.20	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-03DUP

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	6.20	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000195	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131592
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0030	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00051	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0553	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-03DUP
Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	114	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00064	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0043	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	49.7	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00825	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.00104	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.37	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00083	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000117	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	8.30	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	5.17	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.159	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	8.32	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.00100	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	0.00110	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-03DUP

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20 OWP.	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20 OWP.	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0 OWP.	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP.	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP.	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP.	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP.	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP.	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40 OWP.	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30 OWP.	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP.	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543

Analytical Results

WT2328938-010

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-03DUP

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	81.3	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	88.9	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	93.7	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	97.6	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	0.033	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	0.021	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	0.012	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	0.018	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	0.018	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	0.027	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	0.036	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.080	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.044	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	0.048	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	105	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	110	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	106	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Analytical Results

WT2328938-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-03DUP

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.5	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Nitrobenzene-d5	4165-60-0	95.4	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Terphenyl-d14, p-	1718-51-0	90.4	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	109	0.20	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-011

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 11-Sep-2023 14:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131592
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 11-Sep-2023 14:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	<0.0050	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 11-Sep-2023 14:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.4	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543

Analytical Results

WT2328938-011

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 11-Sep-2023 14:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	105	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.8	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	97.7	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.023	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.023	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	108	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	106	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.8	1.0	%	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Nitrobenzene-d5	4165-60-0	91.3	1.0	%	E655A/WT	12-Sep-2023	17-Sep-2023	1130784

Analytical Results

WT2328938-011

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 11-Sep-2023 14:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	111	1.0	%	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	92.7	0.20	%	E655A/WT	12-Sep-2023	17-Sep-2023	1130784

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

ALS Canada Ltd.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2328938**	Page	: 1 of 26
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029-01	Date Samples Received	: 11-Sep-2023 15:40
PO	: 73522487	Issue Date	: 18-Sep-2023 15:04
C-O-C number	: 20-		
Sampler	: Keegan Cleghorn		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Non-Chlorinated Phenolics	QC-MRG4-1130783 002	----	Dinitrophenol, 2,4-	51-28-5	E655A	187 % LCS-H	50.0-140%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	Description
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Matrix Spike (MS) Recoveries								
Volatile Organic Compounds	Anonymous	Anonymous	Acetone	67-64-1	E611D	144 % MES	60.0-140%	Recovery greater than upper data quality objective

Result Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
AG Well	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
BH213	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
BH219	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
FB	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW-01	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW-02	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW-03	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW-03DUP	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW4-23	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW5-23	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
APP Well	E567	11-Sep-2023	13-Sep-2023	28 days	3 days	✓	13-Sep-2023	40 days	0 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
AG Well	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
APP Well	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
BH213	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
BH219	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
FB	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW-01	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW-02	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW-03	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW-03DUP	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW4-23	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW5-23	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis: Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03DUP	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-01	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-02	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
AG Well	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) APP Well	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) BH213	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) BH219	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) FB	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW-01	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW-02	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW-03	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW-03DUP	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW4-23	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW5-23	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) AG Well	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) APP Well	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH213	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH219	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) FB	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW-01	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW-02	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW-03	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW-03DUP	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW4-23	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW5-23	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
FB	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MW-03	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MW-03DUP	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
AG Well	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
APP Well	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH213	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) BH219	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW-01	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW-02	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW4-23	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW5-23	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP] AG Well	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP] APP Well	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP] BH213	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP] BH219	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
FB	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-01	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-02	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-03	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-03DUP	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW4-23	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW5-23	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03DUP	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-01	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-02	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03DUP	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times: Rec	Holding Times: Actual	Eval	Analysis: Analysis Date	Holding Times: Rec	Holding Times: Actual	Eval
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-01	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-02	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
AG Well	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
APP Well	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
BH213	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
BH219	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
FB	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-01	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-02	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-03	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-03DUP	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW4-23	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW5-23	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times: Rec	Holding Times: Actual	Eval	Analysis: Analysis Date	Holding Times: Rec	Holding Times: Actual	Eval
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03DUP	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-01	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-02	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AG Well	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
APP Well	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH213	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH219	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
FB	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW-01	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW-02	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW-03	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW-03DUP	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW4-23	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW5-23	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
AG Well	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
APP Well	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
BH213	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
BH219	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
FB	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW-01	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW-02	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW-03	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW-03DUP	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW4-23	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times: Rec	Holding Times: Actual	Eval	Analysis: Analysis Date	Holding Times: Rec	Holding Times: Actual	Eval
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW5-23	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
FB	E611D	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW-03	E611D	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW-03DUP	E611D	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
AG Well	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
APP Well	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH213	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH219	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW-01	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW-02	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW4-23	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW5-23	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1128821	1	16	6.2	5.0	✓
Chloride in Water by IC	E235.Cl	1129787	1	14	7.1	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1129050	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1128826	1	19	5.2	5.0	✓
Total Cyanide	E333	1134063	1	16	6.2	5.0	✓
Total Mercury in Water by CVAAS	E508	1131592	2	36	5.5	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1128820	1	19	5.2	5.0	✓
Laboratory Control Samples (LCS)							
BNA (ON 625-511 list) by GC-MS	E655A	1134147	3	22	13.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1128821	1	16	6.2	5.0	✓
Chloride in Water by IC	E235.Cl	1129787	1	14	7.1	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1129050	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1128826	1	19	5.2	5.0	✓
Oil & Grease by Gravimetry	E567	1128724	1	19	5.2	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	1128544	1	11	9.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1128543	1	18	5.5	5.0	✓
Total Cyanide	E333	1134063	1	16	6.2	5.0	✓
Total Mercury in Water by CVAAS	E508	1131592	2	36	5.5	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1128820	1	19	5.2	5.0	✓
Method Blanks (MB)							
BNA (ON 625-511 list) by GC-MS	E655A	1134147	3	22	13.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1128821	1	16	6.2	5.0	✓
Chloride in Water by IC	E235.Cl	1129787	1	14	7.1	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1129050	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1128826	1	19	5.2	5.0	✓
Oil & Grease by Gravimetry	E567	1128724	1	19	5.2	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	1128544	1	11	9.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1128543	1	18	5.5	5.0	✓
Total Cyanide	E333	1134063	1	16	6.2	5.0	✓
Total Mercury in Water by CVAAS	E508	1131592	2	36	5.5	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1128820	1	19	5.2	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1128821	1	16	6.2	5.0	✓
Chloride in Water by IC	E235.Cl	1129787	1	14	7.1	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1129050	1	20	5.0	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Metals in Water by CRC ICPMS	E421	1128826	1	19	5.2	5.0	✓
Total Cyanide	E333	1134063	1	16	6.2	5.0	✓
Total Mercury in Water by CVAAS	E508	1131592	2	36	5.5	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1128820	1	19	5.2	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Total Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Total Mercury in Water by CVAAS	E508 ALS Environmental - Waterloo	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A ALS Environmental - Waterloo	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
Oil & Grease by Gravimetry	E567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hexane LVI GC-MS	E641A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
BNA (ON 625-511 list) by GC-MS	E655A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS.
F1-BTEX	EC580 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
BNA Extraction	EP655 ALS Environmental - Waterloo	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.

ALS Canada Ltd.

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QUALITY CONTROL REPORT

Work Order	: **WT2328938**	Page	: 1 of 21
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 11210029-01	Date Samples Received	: 11-Sep-2023 15:40
PO	: 73522487	Date Analysis Commenced	: 11-Sep-2023
C-O-C number	: 20-	Issue Date	: 18-Sep-2023 15:04
Sampler	: Keegan Cleghorn 519 725 3313		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Waterloo Metals, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 1129787)											
WT2328896-001	Anonymous	Chloride	16887-00-6	E235.Cl	5.00	mg/L	471	473	0.427%	20%	----
Cyanides (QC Lot: 1134063)											
TY2308957-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.0020	mg/L	0.272	0.280	2.91%	20%	----
Total Metals (QC Lot: 1131589)											
TY2308959-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Total Metals (QC Lot: 1131592)											
WT2328938-007	BH213	Mercury, total	7439-97-6	E508	0.0000050	mg/L	0.0000329	0.0000363	0.0000034	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1128826)											
WT2328768-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	2.4 µg/L	0.0025	0.00009	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	0.14 µg/L	0.00014	0.000003	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.62 µg/L	0.00056	0.00006	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	41.8 µg/L	0.0399	4.67%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.020 µg/L	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	30 µg/L	0.030	0.0005	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	119	117	1.59%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.10 µg/L	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	1.86 µg/L	0.00172	0.00014	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.050 µg/L	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0031	0.0030	0.00003	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	31.6	30.3	4.32%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00122	0.00124	1.87%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.851 µg/L	0.000833	2.11%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.58 µg/L	0.00054	0.00004	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	0.831	0.808	2.79%	20%	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1128826) - continued											
WT2328768-001	Anonymous	Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00084	0.00089	0.00005	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.239 µg/L	0.000253	0.000013	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	6.40	6.30	1.50%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.010 µg/L	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	7700 µg/L	7.38	4.21%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	1.92	1.88	2.10%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	6.25	6.30	0.799%	20%	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	0.015 µg/L	0.000013	0.000002	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	1.37 µg/L	0.00136	1.09%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	0.71 µg/L	0.00066	0.00005	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	1.5 µg/L	<0.0010	0.0005	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1129050)											
WT2328537-002	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1128820)											
WT2328728-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1128820) - continued											
WT2328728-001	Anonymous	Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1128821)											
WT2328728-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients (QCLot: 1129787)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 1134063)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Total Metals (QCLot: 1131589)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Total Metals (QCLot: 1131592)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1128826)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1128826) - continued						
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Speciated Metals (QCLot: 1129050)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1128724)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Volatile Organic Compounds (QCLot: 1128820)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1128820) - continued						
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1128543)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Hydrocarbons (QCLot: 1128821)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1128544)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1128544) - continued						
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Phthalate Esters (QCLot: 1128715)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Phthalate Esters (QCLot: 1130784)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Phthalate Esters (QCLot: 1134147)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Semi-Volatile Organics (QCLot: 1128715)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Semi-Volatile Organics (QCLot: 1128715) - continued						
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1130784)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1134147)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 1128715)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Chlorinated Phenolics (QCLot: 1130784)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Chlorinated Phenolics (QCLot: 1134147)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Chlorinated Phenolics (QCLot: 1134147) - continued						
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Non-Chlorinated Phenolics (QCLot: 1128715)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1130784)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1134147)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1129787)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Cyanides (QCLot: 1134063)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	97.8	80.0	120	----
Total Metals (QCLot: 1131589)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0.0001 mg/L	101	80.0	120	----
Total Metals (QCLot: 1131592)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0.0001 mg/L	100	80.0	120	----
Dissolved Metals (QCLot: 1128826)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	101	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	102	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	105	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	105	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	110	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	101	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	105	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	101	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	101	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.0025 mg/L	103	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	102	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	101	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	100	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	102	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	102	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.0125 mg/L	108	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	109	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.0125 mg/L	104	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	102	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	101	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	105	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	106	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 1128826) - continued									
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	105	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	99.9	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	108	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	98.1	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	105	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.0125 mg/L	103	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	108	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	97.8	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	103	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	99.8	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	102	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.0125 mg/L	101	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	104	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	103	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	104	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	98.4	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	101	80.0	120	----
Speciated Metals (QCLot: 1129050)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	95.2	80.0	120	----
Aggregate Organics (QCLot: 1128724)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	100	70.0	130	----
Volatile Organic Compounds (QCLot: 1128820)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	129	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	114	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	103	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	105	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1128820) - continued									
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	102	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	113	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	109	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	112	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	96.6	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	115	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	125	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	113	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	96.3	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	96.6	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	104	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	103	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	99.7	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	99.1	70.0	130	----
Hydrocarbons (QCLot: 1128543)									
F2 (C10-C16)	----	E601.SG	100	µg/L	3685.12 µg/L	99.0	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	7481.33 µg/L	102	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4274.88 µg/L	112	70.0	130	----
Hydrocarbons (QCLot: 1128821)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	102	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1128544)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	106	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	106	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	110	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	117	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	110	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	101	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	101	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	99.3	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	104	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	103	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	109	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	111	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	132	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	105	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	107	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	111	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	112	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	106	50.0	140	----
Phthalate Esters (QCLot: 1128715)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	121	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	95.3	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	92.1	50.0	140	----
Phthalate Esters (QCLot: 1130784)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	130	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	97.1	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	97.0	50.0	140	----
Phthalate Esters (QCLot: 1134147)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	121	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	96.0	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	89.5	50.0	140	----
Semi-Volatile Organics (QCLot: 1128715)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	82.6	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	83.0	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Semi-Volatile Organics (QCLot: 1128715) - continued									
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	87.1	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	31.4	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	33.4	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	109	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	102	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	63.7	50.0	140	----
Semi-Volatile Organics (QCLot: 1130784)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	87.1	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	88.2	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	95.3	50.0	140	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	41.2	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	130	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	120	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	65.2	50.0	140	----
Semi-Volatile Organics (QCLot: 1134147)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	80.5	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	78.8	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	83.0	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	35.9	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	34.6	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	99.5	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	92.1	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	63.5	50.0	140	----
Chlorinated Phenolics (QCLot: 1128715)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	85.9	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	93.6	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	109	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	102	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	96.0	50.0	140	----
Chlorinated Phenolics (QCLot: 1130784)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	95.6	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	102	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	132	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	115	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	108	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Chlorinated Phenolics (QCLot: 1134147)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	81.0	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	89.8	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	101	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	97.8	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	91.6	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1128715)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	89.8	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	119	50.0	140	----
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	110	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1130784)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	98.9	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	# 187	50.0	140	LCS-H
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	112	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1134147)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	87.8	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	100	50.0	140	----
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	107	50.0	140	----

Qualifiers

Qualifier	Description
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1129787)										
WT2328896-001	Anonymous	Chloride	16887-00-6	E235.Cl	1000 mg/L	1000 mg/L	100	75.0	125	----
Cyanides (QCLot: 1134063)										
TY2308957-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	ND mg/L	0.25 mg/L	ND	75.0	125	----
Total Metals (QCLot: 1131589)										
TY2308959-002	Anonymous	Mercury, total	7439-97-6	E508	0.000111 mg/L	0.0001 mg/L	111	70.0	130	----
Total Metals (QCLot: 1131592)										
WT2328938-008	BH219	Mercury, total	7439-97-6	E508	0.000110 mg/L	0.0001 mg/L	110	70.0	130	----
Dissolved Metals (QCLot: 1128826)										
WT2328768-003	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.106 mg/L	0.1 mg/L	106	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0548 mg/L	0.05 mg/L	110	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0598 mg/L	0.05 mg/L	120	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.00570 mg/L	0.005 mg/L	114	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0459 mg/L	0.05 mg/L	91.8	70.0	130	----
		Boron, dissolved	7440-42-8	E421	ND mg/L	0.05 mg/L	ND	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00505 mg/L	0.005 mg/L	101	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00279 mg/L	0.0025 mg/L	112	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0131 mg/L	0.0125 mg/L	105	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0126 mg/L	0.0125 mg/L	100	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0119 mg/L	0.0125 mg/L	95.0	70.0	130	----
		Iron, dissolved	7439-89-6	E421	ND mg/L	0.05 mg/L	ND	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0250 mg/L	0.025 mg/L	100	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0137 mg/L	0.0125 mg/L	110	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0241 mg/L	0.025 mg/L	96.4	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	0.634 mg/L	0.5 mg/L	127	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 1128826) - continued										
WT2328768-003	Anonymous	Rubidium, dissolved	7440-17-7	E421	0.00554 mg/L	0.005 mg/L	111	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0646 mg/L	0.05 mg/L	129	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	0.5 mg/L	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00394 mg/L	0.005 mg/L	78.8	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.00542 mg/L	0.005 mg/L	108	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0504 mg/L	0.05 mg/L	101	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.00516 mg/L	0.005 mg/L	103	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0270 mg/L	0.025 mg/L	108	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0137 mg/L	0.0125 mg/L	110	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.00545 mg/L	0.005 mg/L	109	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	0.00025 mg/L	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0279 mg/L	0.025 mg/L	112	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.0238 mg/L	0.025 mg/L	95.3	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.00560 mg/L	0.005 mg/L	112	70.0	130	----
Speciated Metals (QCLot: 1129050)										
WT2328537-002	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0389 mg/L	0.04 mg/L	97.4	70.0	130	----
Volatile Organic Compounds (QCLot: 1128820)										
WT2328728-001	Anonymous	Acetone	67-64-1	E611D	144 µg/L	100 µg/L	144	60.0	140	MES
		Benzene	71-43-2	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Bromoform	75-25-2	E611D	111 µg/L	100 µg/L	111	60.0	140	----
		Bromomethane	74-83-9	E611D	117 µg/L	100 µg/L	117	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	99.1 µg/L	100 µg/L	99.1	60.0	140	----
		Chlorobenzene	108-90-7	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Chloroform	67-66-3	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	99.7 µg/L	100 µg/L	99.7	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	98.8 µg/L	100 µg/L	98.8	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	105 µg/L	100 µg/L	105	60.0	140	----

Sub-Matrix: **Water**

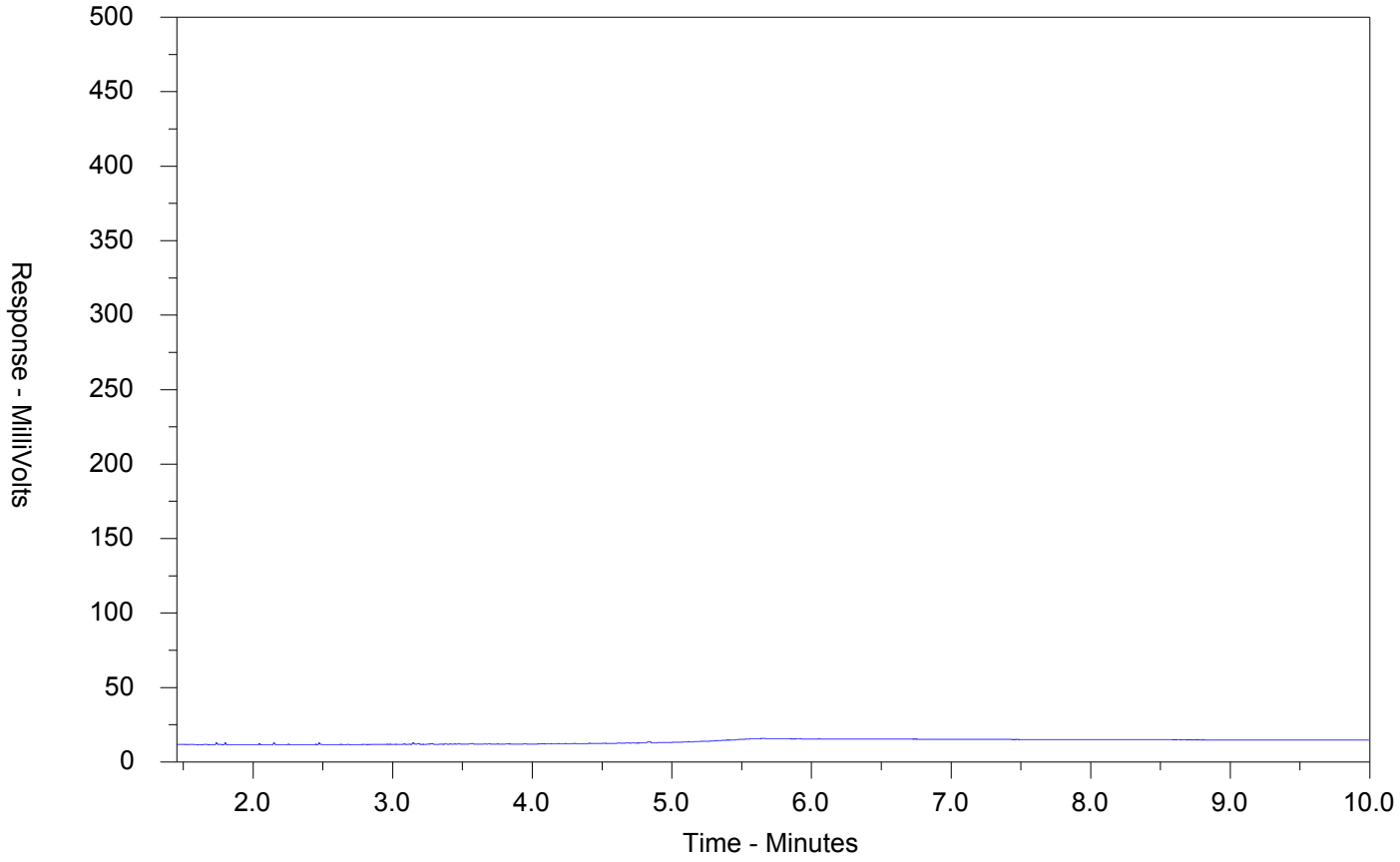
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1128820) - continued										
WT2328728-001	Anonymous	Dichloroethane, 1,1-	75-34-3	E611D	111 µg/L	100 µg/L	111	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	116 µg/L	100 µg/L	116	60.0	140	----
		Dichloromethane	75-09-2	E611D	118 µg/L	100 µg/L	118	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Ethylbenzene	100-41-4	E611D	94.7 µg/L	100 µg/L	94.7	60.0	140	----
		Hexane, n-	110-54-3	E611D	116 µg/L	100 µg/L	116	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	129 µg/L	100 µg/L	129	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	114 µg/L	100 µg/L	114	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Styrene	100-42-5	E611D	95.9 µg/L	100 µg/L	95.9	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	97.6 µg/L	100 µg/L	97.6	60.0	140	----
		Toluene	108-88-3	E611D	92.6 µg/L	100 µg/L	92.6	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Trichloroethylene	79-01-6	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Vinyl chloride	75-01-4	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	201 µg/L	200 µg/L	100	60.0	140	----
		Xylene, o-	95-47-6	E611D	98.5 µg/L	100 µg/L	98.5	60.0	140	----
Hydrocarbons (QCLot: 1128821)										
WT2328728-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1830 µg/L	2000 µg/L	91.5	60.0	140	----

Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-001-E601.SG
Client Sample ID: APP Well



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

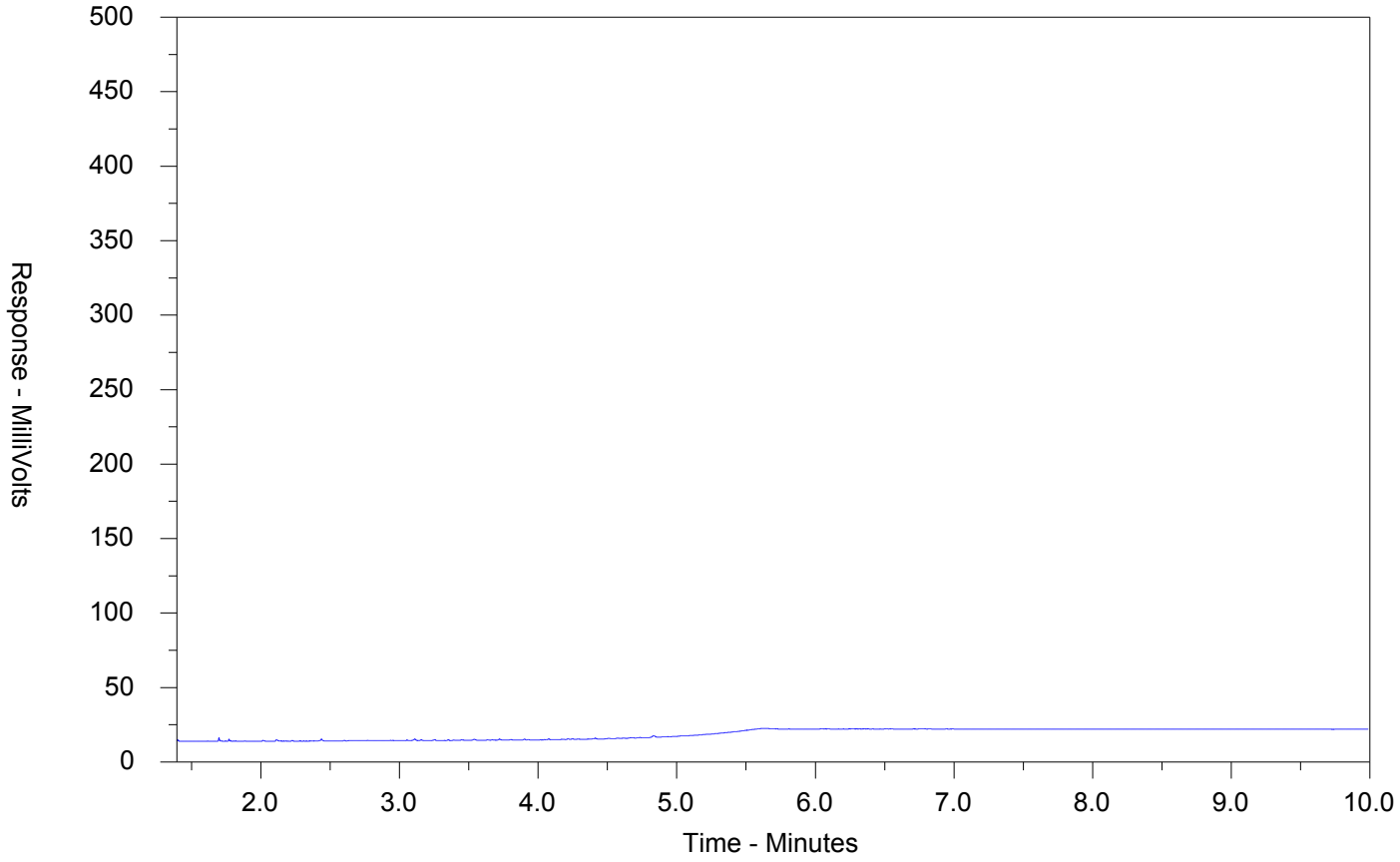
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-002-E601.SG
Client Sample ID: MW-01



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

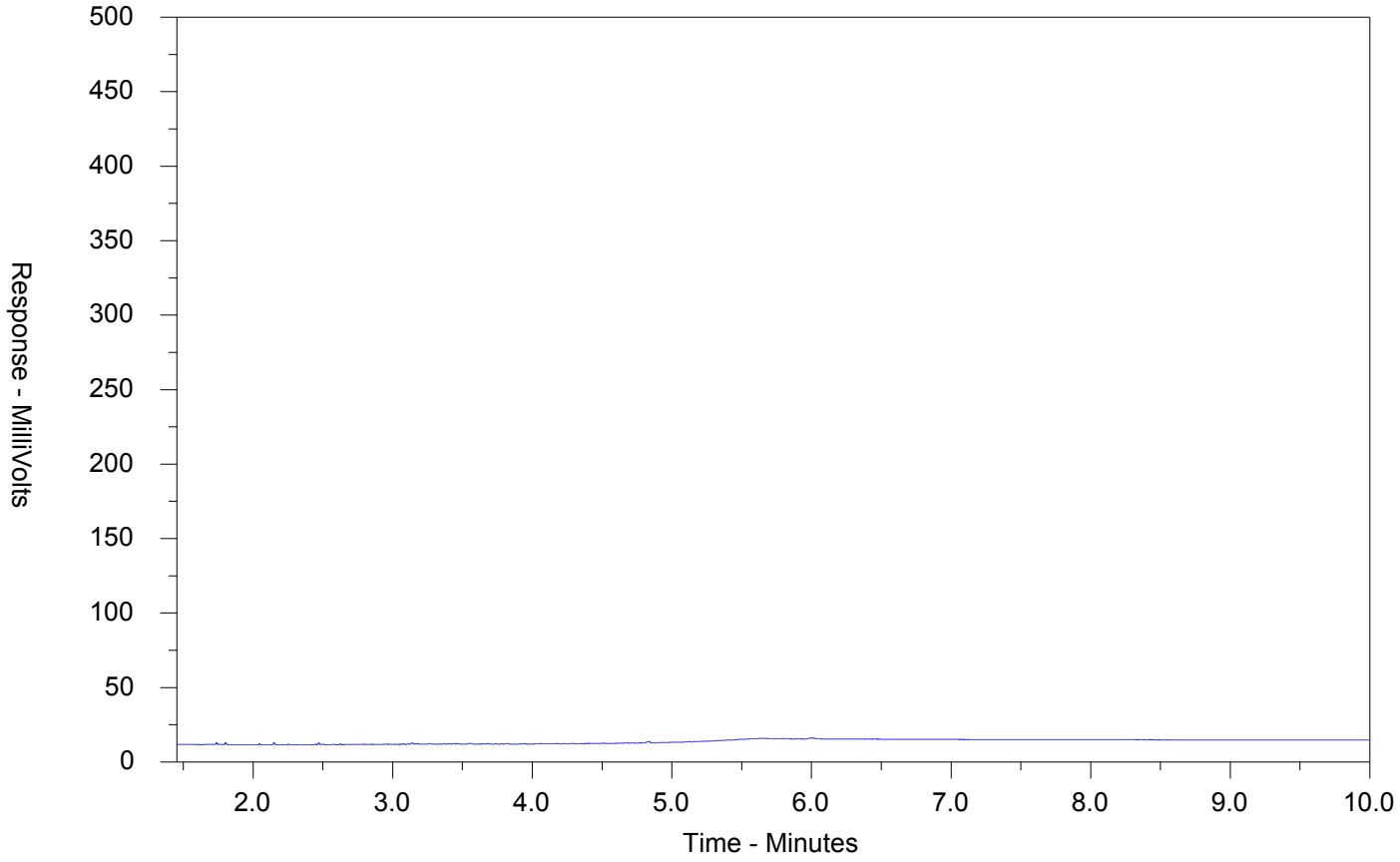
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-003-E601.SG
Client Sample ID: AG Well



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

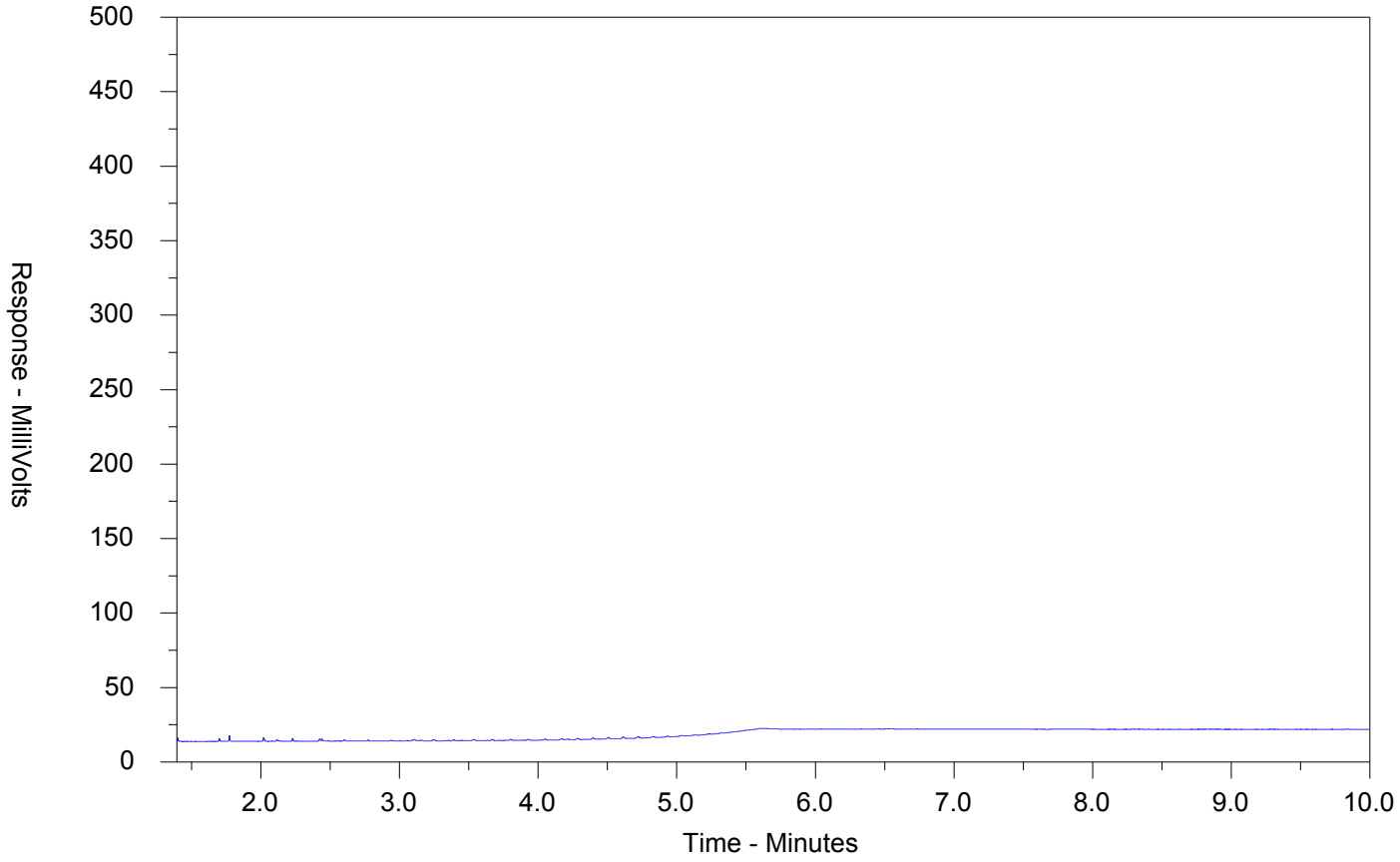
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-004-E601.SG
Client Sample ID: MW-02



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

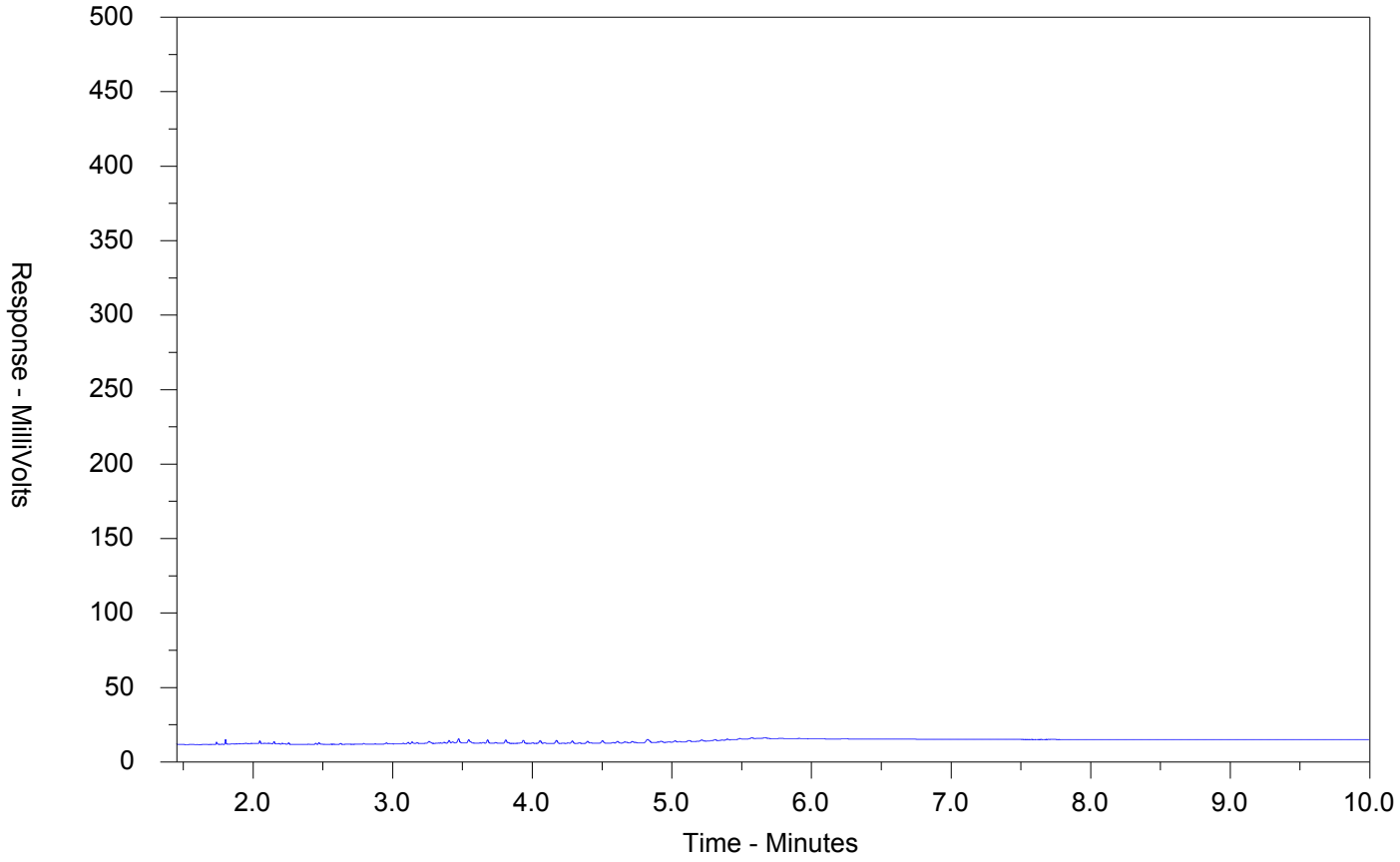
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-005-E601.SG
Client Sample ID: MW4-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

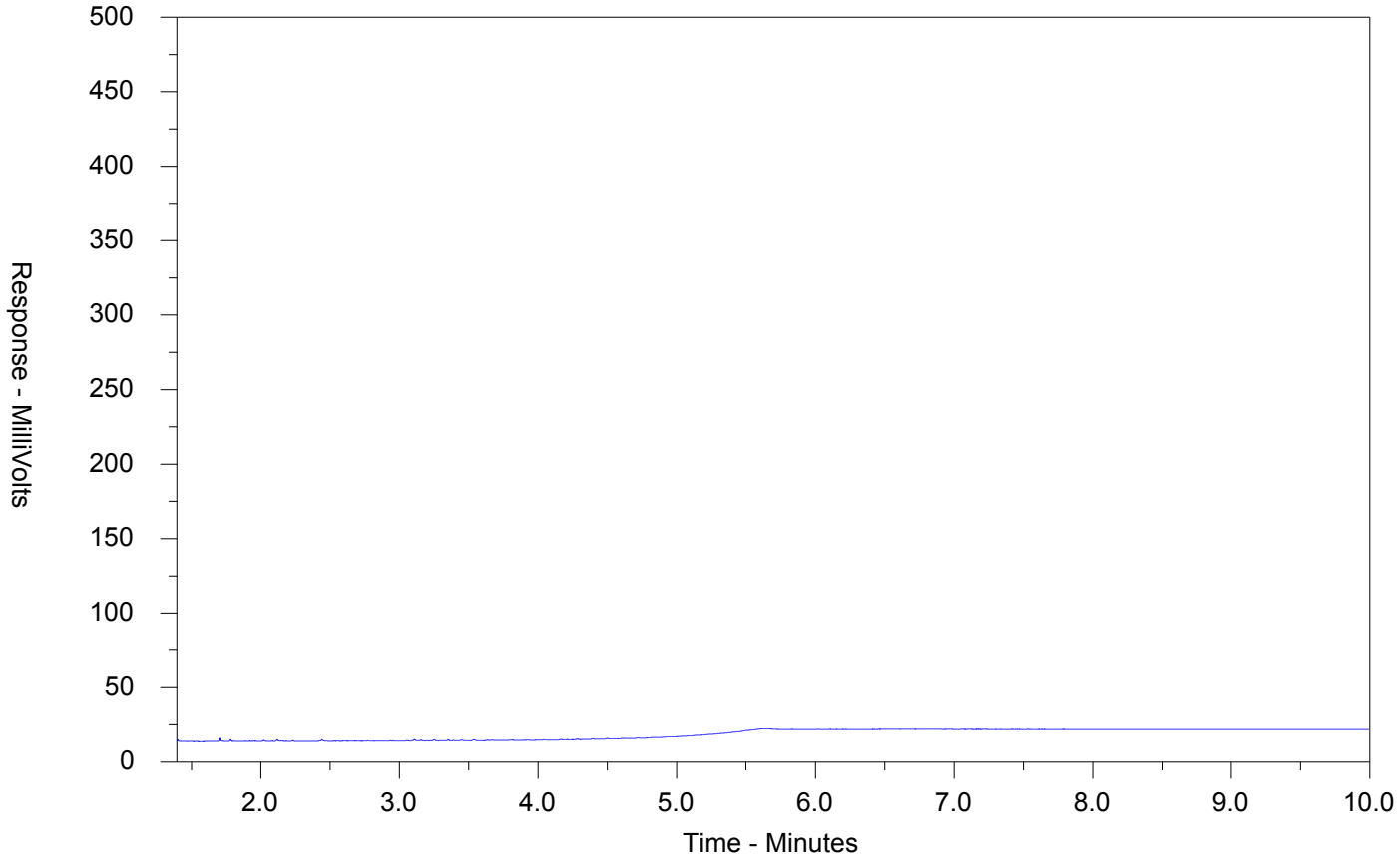
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-006-E601.SG
Client Sample ID: MW5-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

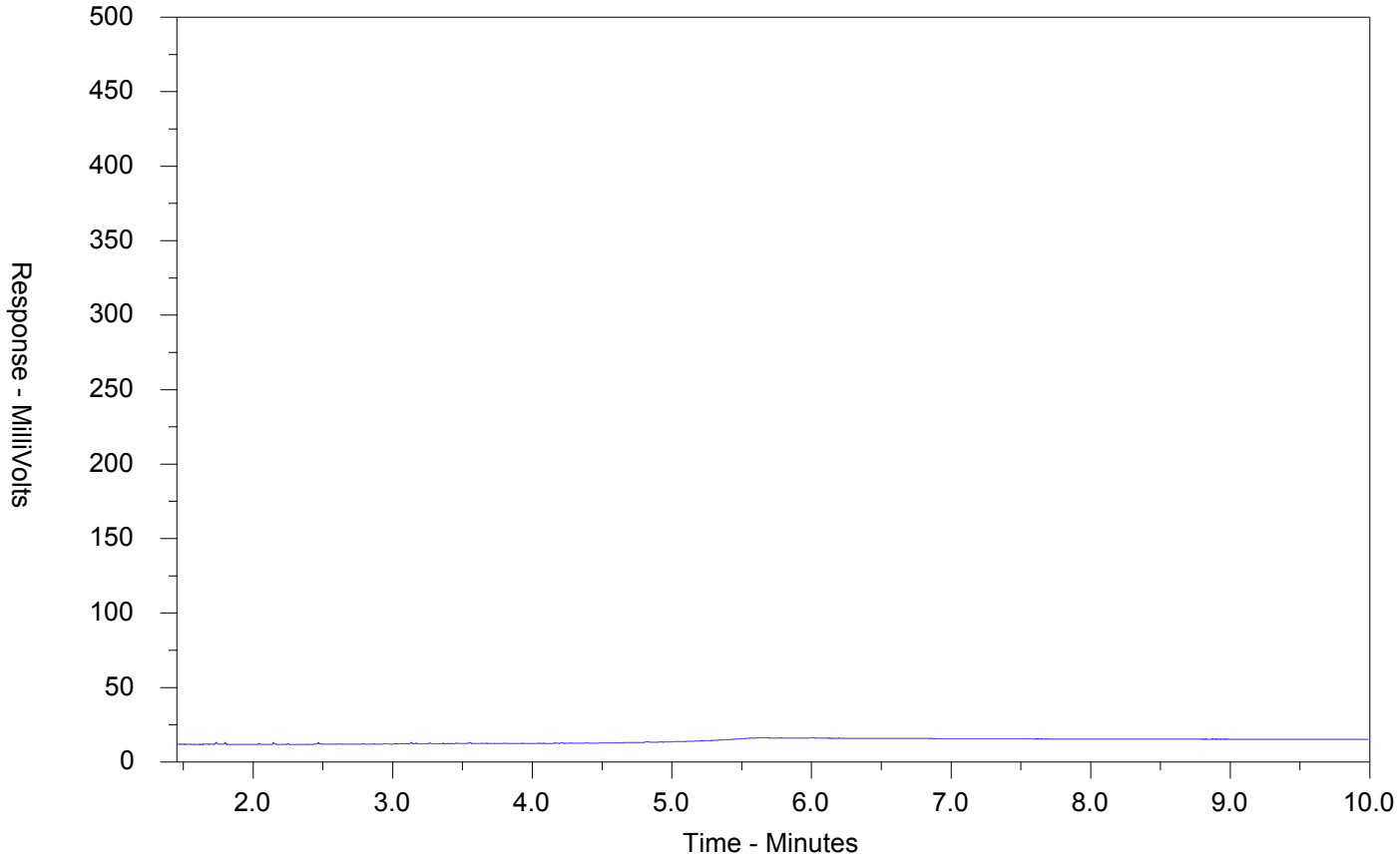
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-007-E601.SG
Client Sample ID: BH213



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

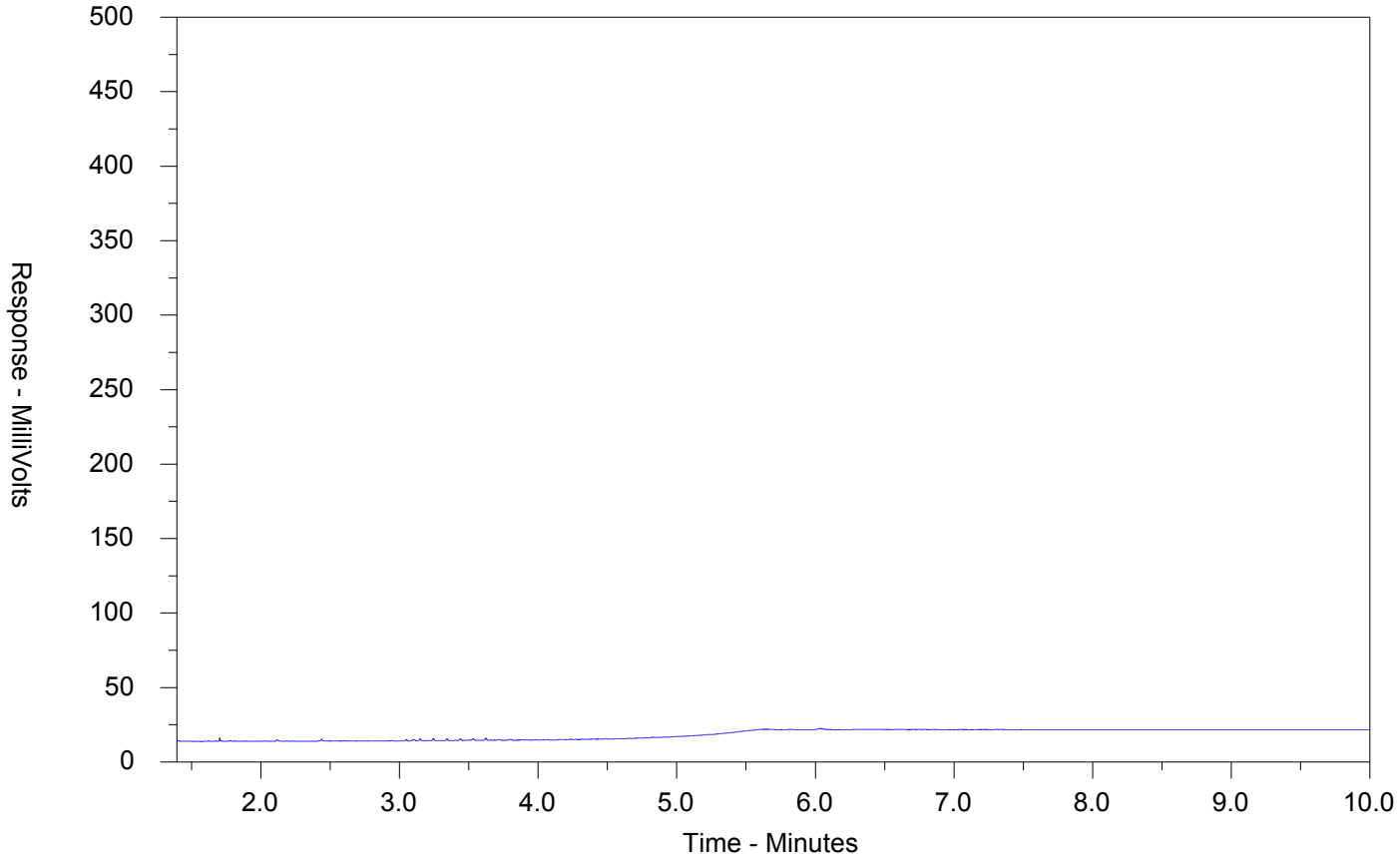
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-008-E601.SG
Client Sample ID: BH219



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

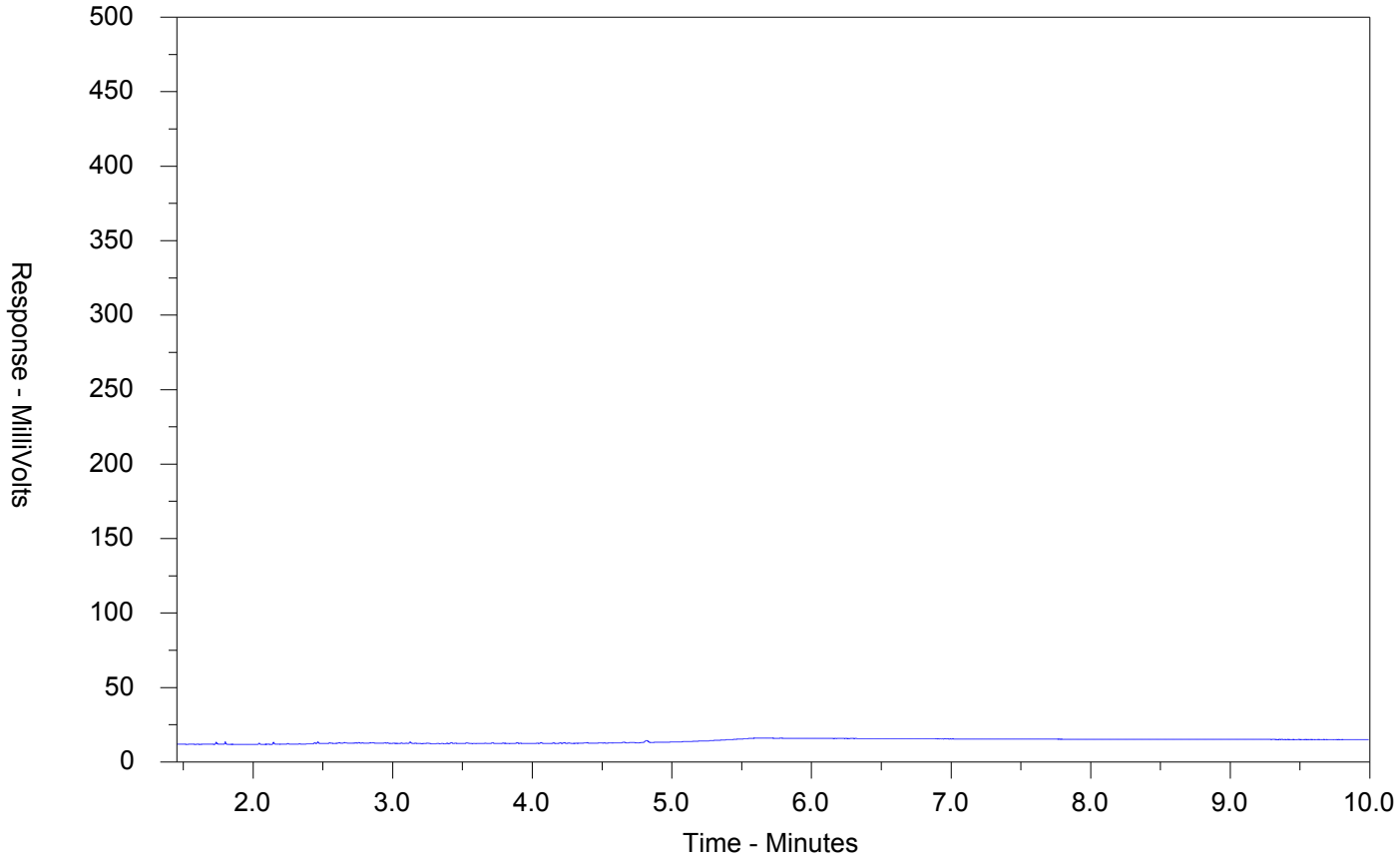
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-009-E601.SG
Client Sample ID: MW-03



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

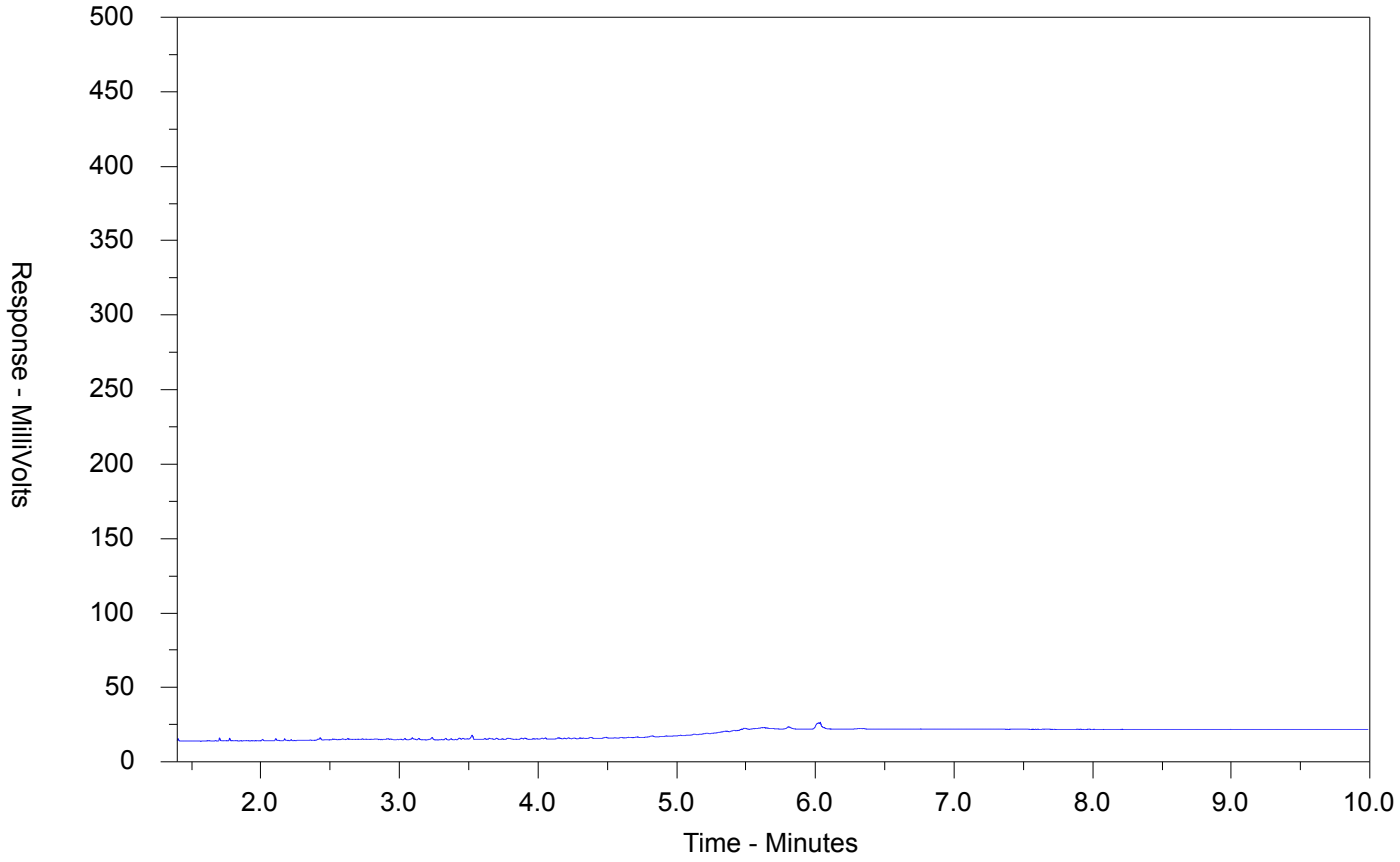
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-010-E601.SG
Client Sample ID: MW-03DUP



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

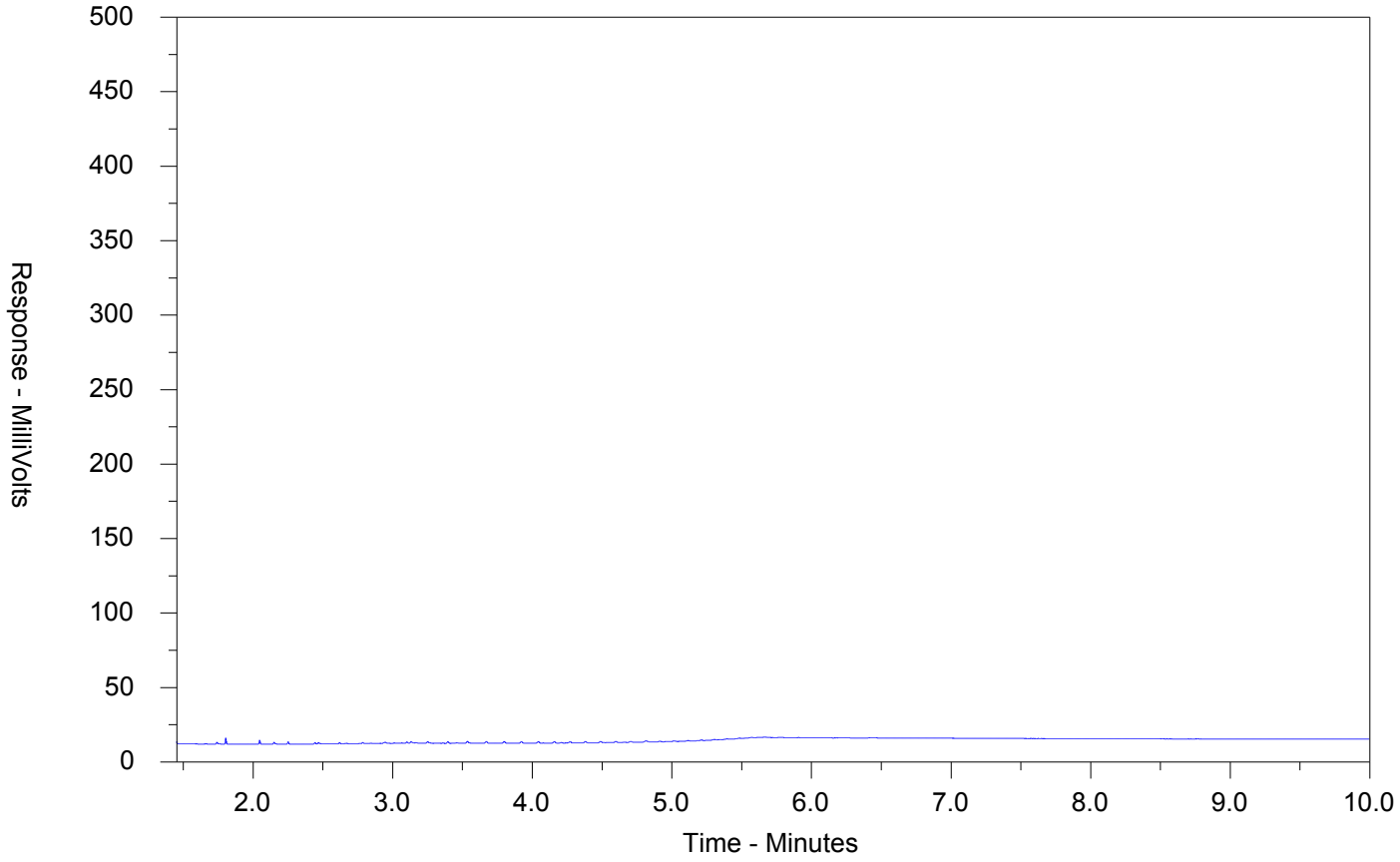
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-011-E601.SG
Client Sample ID: FB



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Page

Environmental Division Waterloo

Work Order Reference

WT2328938

Telephone : + 1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: pascal.renella@ghd.com

Email 2: See SSOW/PO

Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: accountspayableCDN@ghd.com

Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minim

☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minin

☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minin

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minim

Same day [E2] if received by 10am M-S - 200% rush surcharge

☐ fees may apply to rush resuests on weekends, statutory holidays routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information

ALS Account # / Quote #:	GHDL100 / WT2022GHDL1000018
Job #:	11210029-01
PO / AFE:	73522487
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#:
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2328938

ALS Contact: Rick H

Sampler: K. Oegham

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	GROUNDWATER ANALYSIS	Dissolved Metals (Field Filter)	Dissolved Mercury (Field Filter)	Dissolved hexavalent Chromium (FF)	Total Cyanide	Total Oil and Grease	Chloride	VOC,PHC F1-F4	SVOCs (including PAHs)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	APP Well	11-Sep-23	8 50	Water	13	R	R	R	R	R	R	R	R	R			
	MW-01		9 20														
	AG Well		9 45														
	MW-02		10 10														
	MW4-23		11 00														
	MW5-23		11 35														
	BH213		12 20														
	BH219		13 00														
	MW-03		14 15														
	MW-03-DUP		14 15														
	FB		14 30														

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

-No FB water provided. Used DI water.

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
6.6	13.1	12.1	14.2				

SHIPMENT RELEASE (client use)

Released by: [redacted] Date: Sept 11/23 Time: 15 30

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: [redacted] Date: Sep 11/23 Time: 3:40pm

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

VW-250 OR-126 OGE-884/888 NM 477

OS-812/813 GC695 CN317 SC-459

GHD Limited (Waterloo)
ATTN: Laura Ermeta
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Date Received: 25-NOV-20
Report Date: 30-NOV-20 08:54 (MT)
Version: FINAL

Client Phone: 519-884-0510

Certificate of Analysis

Lab Work Order #: L2533335

Project P.O. #: 73522069
Job Reference: 11210029-02
C of C Numbers: 17-871527
Legal Site Desc:

[redacted]

Rick Hawthorne
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-1 GW-11210029-112420-MW-2 Sampled By: CLIENT on 24-NOV-20 @ 11:25 Matrix: WATER							
Physical Tests							
Conductivity	0.864		0.0030	mS/cm		26-NOV-20	R5298244
pH	7.46		0.10	pH units		26-NOV-20	R5298244
Anions and Nutrients							
Chloride (Cl)	8.11		0.50	mg/L		27-NOV-20	R5299616
Cyanides							
Cyanide, Weak Acid Diss	<2.0		2.0	ug/L		26-NOV-20	R5298560
Total Metals							
Aluminum (Al)-Total	0.0066		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Arsenic (As)-Total	0.00050		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Barium (Ba)-Total	0.0783		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Boron (B)-Total	0.068		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Cadmium (Cd)-Total	0.000101		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Calcium (Ca)-Total	93.7		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Chromium (Cr)-Total	<0.00050		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cobalt (Co)-Total	0.00159		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Copper (Cu)-Total	0.0180		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Iron (Fe)-Total	<0.010		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Lead (Pb)-Total	0.000270		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Lithium (Li)-Total	0.0026		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Magnesium (Mg)-Total	34.3		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Manganese (Mn)-Total	0.354		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		27-NOV-20	R5298809
Molybdenum (Mo)-Total	0.00114		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Nickel (Ni)-Total	0.00897		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Potassium (K)-Total	63.2	DLHC	0.50	mg/L	26-NOV-20	26-NOV-20	R5298095
Rubidium (Rb)-Total	0.0104		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Selenium (Se)-Total	0.000119		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Silicon (Si)-Total	4.98		0.10	mg/L	26-NOV-20	27-NOV-20	R5298095
Silver (Ag)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Sodium (Na)-Total	6.57		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Strontium (Sr)-Total	0.156		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Sulfur (S)-Total	7.18		0.50	mg/L	26-NOV-20	27-NOV-20	R5298095
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Thallium (Tl)-Total	0.000112		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	26-NOV-20	27-NOV-20	R5298095

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-1 GW-11210029-112420-MW-2 Sampled By: CLIENT on 24-NOV-20 @ 11:25 Matrix: WATER							
Total Metals							
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Uranium (U)-Total	0.000608		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Vanadium (V)-Total	<0.00050		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Zinc (Zn)-Total	0.0251		0.0030	mg/L	26-NOV-20	27-NOV-20	R5298095
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298103
Dissolved Metals Filtration Location	FIELD					26-NOV-20	R5297816
Antimony (Sb)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Arsenic (As)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Barium (Ba)-Dissolved	78.5	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Beryllium (Be)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Boron (B)-Dissolved	<100	DLHC	100	ug/L	26-NOV-20	26-NOV-20	R5298475
Cadmium (Cd)-Dissolved	0.118	DLHC	0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Chromium (Cr)-Dissolved	<5.0	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Cobalt (Co)-Dissolved	1.6	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Copper (Cu)-Dissolved	17.1	DLHC	2.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Lead (Pb)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Mercury (Hg)-Dissolved	<0.0050		0.0050	ug/L	26-NOV-20	27-NOV-20	R5298836
Molybdenum (Mo)-Dissolved	1.02	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Nickel (Ni)-Dissolved	9.2	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Selenium (Se)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Silver (Ag)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Sodium (Na)-Dissolved	6920	DLHC	500	ug/L	26-NOV-20	26-NOV-20	R5298475
Thallium (Tl)-Dissolved	0.10	DLHC	0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Uranium (U)-Dissolved	0.61	DLHC	0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Vanadium (V)-Dissolved	<5.0	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Zinc (Zn)-Dissolved	26	DLHC	10	ug/L	26-NOV-20	26-NOV-20	R5298475
Speciated Metals							
Chromium, Hexavalent	<0.50		0.50	ug/L		25-NOV-20	R5297893
Aggregate Organics							
Oil and Grease, Total	<5.0		5.0	mg/L	26-NOV-20	26-NOV-20	R5298859
Animal/Veg Oil & Grease	<5.0		5.0	mg/L		27-NOV-20	
Mineral Oil and Grease	<2.5		2.5	mg/L	26-NOV-20	26-NOV-20	R5298859
Volatile Organic Compounds							
Acetone	<30		30	ug/L		30-NOV-20	R5299578
Benzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Bromodichloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Bromoform	<5.0		5.0	ug/L		30-NOV-20	R5299578
Bromomethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Carbon tetrachloride	<0.20		0.20	ug/L		30-NOV-20	R5299578
Chlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-1 GW-11210029-112420-MW-2 Sampled By: CLIENT on 24-NOV-20 @ 11:25 Matrix: WATER							
Volatile Organic Compounds							
Dibromochloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Chloroform	<1.0		1.0	ug/L		30-NOV-20	R5299578
1,2-Dibromoethane	<0.20		0.20	ug/L		30-NOV-20	R5299578
1,2-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,3-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,4-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dichlorodifluoromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
1,1-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,2-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methylene Chloride	<5.0		5.0	ug/L		30-NOV-20	R5299578
1,2-Dichloropropane	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
trans-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L		30-NOV-20	
Ethylbenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
n-Hexane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methyl Ethyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
Methyl Isobutyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
MTBE	<2.0		2.0	ug/L		30-NOV-20	R5299578
Styrene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Tetrachloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Toluene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichlorofluoromethane	<5.0		5.0	ug/L		30-NOV-20	R5299578
Vinyl chloride	<0.50		0.50	ug/L		30-NOV-20	R5299578
o-Xylene	<0.30		0.30	ug/L		30-NOV-20	R5299578
m+p-Xylenes	<0.40		0.40	ug/L		30-NOV-20	R5299578
Xylenes (Total)	<0.50		0.50	ug/L		30-NOV-20	
Surrogate: 4-Bromofluorobenzene	98.6		70-130	%		30-NOV-20	R5299578
Surrogate: 1,4-Difluorobenzene	100.7		70-130	%		30-NOV-20	R5299578
Hydrocarbons							
F1 (C6-C10)	<25		25	ug/L		30-NOV-20	R5299578
F1-BTEX	<25		25	ug/L		30-NOV-20	
F2 (C10-C16)	<100		100	ug/L	25-NOV-20	26-NOV-20	R5298486

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-1 GW-11210029-112420-MW-2 Sampled By: CLIENT on 24-NOV-20 @ 11:25 Matrix: WATER							
Hydrocarbons							
F2-Naphth	<100		100	ug/L		30-NOV-20	
F3 (C16-C34)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
F3-PAH	<250		250	ug/L		30-NOV-20	
F4 (C34-C50)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
Total Hydrocarbons (C6-C50)	<370		370	ug/L		30-NOV-20	
Chrom. to baseline at nC50	YES				25-NOV-20	26-NOV-20	R5298486
Surrogate: 2-Bromobenzotrifluoride	91.8		60-140	%	25-NOV-20	26-NOV-20	R5298486
Surrogate: 3,4-Dichlorotoluene	81.5		60-140	%		30-NOV-20	R5299578
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Acenaphthylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)pyrene	<0.010		0.010	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(b)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(k)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Chrysene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluoranthene	0.031		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluorene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
1+2-Methylnaphthalenes	<0.028		0.028	ug/L		27-NOV-20	
1-Methylnaphthalene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
2-Methylnaphthalene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Naphthalene	<0.050		0.050	ug/L	25-NOV-20	27-NOV-20	R5298949
Phenanthrene	0.024		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Pyrene	0.037		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Acenaphthene	84.3		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d12-Chrysene	90.5		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d8-Naphthalene	86.2		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Phenanthrene	93.9		60-140	%	25-NOV-20	27-NOV-20	R5298949
Semi-Volatile Organics							
Biphenyl	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
4-Chloroaniline	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2-Chlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dichlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
Diethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-1 GW-11210029-112420-MW-2 Sampled By: CLIENT on 24-NOV-20 @ 11:25 Matrix: WATER							
Semi-Volatile Organics							
Dimethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dimethylphenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrophenol	<1.0		1.0	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,6-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4+2,6-Dinitrotoluene	<0.57		0.57	ug/L		27-NOV-20	
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	25-NOV-20	27-NOV-20	R5298692
Pentachlorophenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
Phenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,5-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,6-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2-Fluorobiphenyl	85.1		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: Nitrobenzene d5	94.5		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: p-Terphenyl d14	105.6		60-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2,4,6-Tribromophenol	115.1		50-140	%	25-NOV-20	27-NOV-20	R5298692
L2533335-2 GW-11210029-112420-MW-2D Sampled By: CLIENT on 24-NOV-20 @ 11:30 Matrix: WATER							
Physical Tests							
Conductivity	0.867		0.0030	mS/cm		26-NOV-20	R5299316
pH	7.68		0.10	pH units		26-NOV-20	R5299316
Anions and Nutrients							
Chloride (Cl)	8.00		0.50	mg/L		27-NOV-20	R5299616
Cyanides							
Cyanide, Weak Acid Diss	<2.0		2.0	ug/L		26-NOV-20	R5298560
Total Metals							
Aluminum (Al)-Total	0.0064		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Arsenic (As)-Total	0.00050		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Barium (Ba)-Total	0.0774		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Boron (B)-Total	0.070		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Cadmium (Cd)-Total	0.000102		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Calcium (Ca)-Total	95.4		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Chromium (Cr)-Total	<0.00050		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cobalt (Co)-Total	0.00163		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Copper (Cu)-Total	0.0175		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Iron (Fe)-Total	<0.010		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Lead (Pb)-Total	0.000171		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-2 GW-11210029-112420-MW-2D Sampled By: CLIENT on 24-NOV-20 @ 11:30 Matrix: WATER							
Total Metals							
Lithium (Li)-Total	0.0027		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Magnesium (Mg)-Total	34.6		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Manganese (Mn)-Total	0.357		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		27-NOV-20	R5298809
Molybdenum (Mo)-Total	0.00111		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Nickel (Ni)-Total	0.00919		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Potassium (K)-Total	63.7	DLHC	0.50	mg/L	26-NOV-20	26-NOV-20	R5298095
Rubidium (Rb)-Total	0.0105		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Selenium (Se)-Total	0.000125		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Silicon (Si)-Total	4.96		0.10	mg/L	26-NOV-20	27-NOV-20	R5298095
Silver (Ag)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Sodium (Na)-Total	6.78		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Strontium (Sr)-Total	0.155		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Sulfur (S)-Total	7.08		0.50	mg/L	26-NOV-20	27-NOV-20	R5298095
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Thallium (Tl)-Total	0.000113		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	26-NOV-20	27-NOV-20	R5298095
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Uranium (U)-Total	0.000609		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Vanadium (V)-Total	<0.00050		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Zinc (Zn)-Total	0.0253		0.0030	mg/L	26-NOV-20	27-NOV-20	R5298095
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298103
Dissolved Metals Filtration Location	FIELD					26-NOV-20	R5297816
Antimony (Sb)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Arsenic (As)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Barium (Ba)-Dissolved	78.5	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Beryllium (Be)-Dissolved	<1.0	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Boron (B)-Dissolved	<100	DLHC	100	ug/L	26-NOV-20	26-NOV-20	R5298475
Cadmium (Cd)-Dissolved	0.139	DLHC	0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Chromium (Cr)-Dissolved	<5.0	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Cobalt (Co)-Dissolved	1.6	DLHC	1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Copper (Cu)-Dissolved	17.0	DLHC	2.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Lead (Pb)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Mercury (Hg)-Dissolved	<0.0050		0.0050	ug/L	26-NOV-20	27-NOV-20	R5298836
Molybdenum (Mo)-Dissolved	1.12	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Nickel (Ni)-Dissolved	9.5	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-2 GW-11210029-112420-MW-2D Sampled By: CLIENT on 24-NOV-20 @ 11:30 Matrix: WATER							
Dissolved Metals							
Selenium (Se)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Silver (Ag)-Dissolved	<0.50	DLHC	0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Sodium (Na)-Dissolved	7340	DLHC	500	ug/L	26-NOV-20	26-NOV-20	R5298475
Thallium (Tl)-Dissolved	0.11	DLHC	0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Uranium (U)-Dissolved	0.60	DLHC	0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Vanadium (V)-Dissolved	<5.0	DLHC	5.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Zinc (Zn)-Dissolved	26	DLHC	10	ug/L	26-NOV-20	26-NOV-20	R5298475
Speciated Metals							
Chromium, Hexavalent	<0.50		0.50	ug/L		25-NOV-20	R5297893
Aggregate Organics							
Oil and Grease, Total	<5.0		5.0	mg/L	26-NOV-20	26-NOV-20	R5298859
Animal/Veg Oil & Grease	<5.0		5.0	mg/L		27-NOV-20	
Mineral Oil and Grease	<2.5		2.5	mg/L	26-NOV-20	26-NOV-20	R5298859
Volatile Organic Compounds							
Acetone	<30		30	ug/L		30-NOV-20	R5299578
Benzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Bromodichloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Bromoform	<5.0		5.0	ug/L		30-NOV-20	R5299578
Bromomethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Carbon tetrachloride	<0.20		0.20	ug/L		30-NOV-20	R5299578
Chlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dibromochloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Chloroform	<1.0		1.0	ug/L		30-NOV-20	R5299578
1,2-Dibromoethane	<0.20		0.20	ug/L		30-NOV-20	R5299578
1,2-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,3-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,4-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dichlorodifluoromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
1,1-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,2-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methylene Chloride	<5.0		5.0	ug/L		30-NOV-20	R5299578
1,2-Dichloropropane	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
trans-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L		30-NOV-20	
Ethylbenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
n-Hexane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methyl Ethyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
Methyl Isobutyl Ketone	<20		20	ug/L		30-NOV-20	R5299578

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-2 GW-11210029-112420-MW-2D Sampled By: CLIENT on 24-NOV-20 @ 11:30 Matrix: WATER							
Volatile Organic Compounds							
MTBE	<2.0		2.0	ug/L		30-NOV-20	R5299578
Styrene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Tetrachloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Toluene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichlorofluoromethane	<5.0		5.0	ug/L		30-NOV-20	R5299578
Vinyl chloride	<0.50		0.50	ug/L		30-NOV-20	R5299578
o-Xylene	<0.30		0.30	ug/L		30-NOV-20	R5299578
m+p-Xylenes	<0.40		0.40	ug/L		30-NOV-20	R5299578
Xylenes (Total)	<0.50		0.50	ug/L		30-NOV-20	
Surrogate: 4-Bromofluorobenzene	97.7		70-130	%		30-NOV-20	R5299578
Surrogate: 1,4-Difluorobenzene	100.8		70-130	%		30-NOV-20	R5299578
Hydrocarbons							
F1 (C6-C10)	<25		25	ug/L		30-NOV-20	R5299578
F1-BTEX	<25		25	ug/L		30-NOV-20	
F2 (C10-C16)	<100		100	ug/L	25-NOV-20	26-NOV-20	R5298486
F2-Naphth	<100		100	ug/L		30-NOV-20	
F3 (C16-C34)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
F3-PAH	<250		250	ug/L		30-NOV-20	
F4 (C34-C50)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
Total Hydrocarbons (C6-C50)	<370		370	ug/L		30-NOV-20	
Chrom. to baseline at nC50	YES				25-NOV-20	26-NOV-20	R5298486
Surrogate: 2-Bromobenzotrifluoride	91.1		60-140	%	25-NOV-20	26-NOV-20	R5298486
Surrogate: 3,4-Dichlorotoluene	76.2		60-140	%		30-NOV-20	R5299578
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Acenaphthylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)pyrene	<0.010		0.010	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(b)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(k)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Chrysene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluoranthene	0.038		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluorene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-2 GW-11210029-112420-MW-2D Sampled By: CLIENT on 24-NOV-20 @ 11:30 Matrix: WATER							
Polycyclic Aromatic Hydrocarbons							
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
1+2-Methylnaphthalenes	<0.028		0.028	ug/L		27-NOV-20	
1-Methylnaphthalene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
2-Methylnaphthalene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Naphthalene	<0.050		0.050	ug/L	25-NOV-20	27-NOV-20	R5298949
Phenanthrene	0.027		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Pyrene	0.040		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Acenaphthene	89.3		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d12-Chrysene	93.9		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d8-Naphthalene	91.7		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Phenanthrene	98.1		60-140	%	25-NOV-20	27-NOV-20	R5298949
Semi-Volatile Organics							
Biphenyl	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
4-Chloroaniline	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2-Chlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dichlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
Diethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Dimethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dimethylphenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrophenol	<1.0		1.0	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,6-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4+2,6-Dinitrotoluene	<0.57		0.57	ug/L		27-NOV-20	
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	25-NOV-20	27-NOV-20	R5298692
Pentachlorophenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
Phenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,5-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,6-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2-Fluorobiphenyl	85.8		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: Nitrobenzene d5	93.7		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: p-Terphenyl d14	99.0		60-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2,4,6-Tribromophenol	114.6		50-140	%	25-NOV-20	27-NOV-20	R5298692
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Physical Tests							
Conductivity	0.609		0.0030	mS/cm		26-NOV-20	R5299316
pH	7.90		0.10	pH units		26-NOV-20	R5299316

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Physical Tests							
Anions and Nutrients							
Chloride (Cl)	4.80		0.50	mg/L		27-NOV-20	R5299616
Cyanides							
Cyanide, Weak Acid Diss	<2.0		2.0	ug/L		26-NOV-20	R5298560
Total Metals							
Aluminum (Al)-Total	0.210		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Antimony (Sb)-Total	0.00015		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Arsenic (As)-Total	0.00035		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Barium (Ba)-Total	0.0689		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Boron (B)-Total	0.012		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Cadmium (Cd)-Total	0.0000100		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Calcium (Ca)-Total	80.6		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cesium (Cs)-Total	0.000022		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Chromium (Cr)-Total	<0.00050		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cobalt (Co)-Total	0.00064		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Copper (Cu)-Total	0.00096		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Iron (Fe)-Total	0.224		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Lead (Pb)-Total	0.000299		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Lithium (Li)-Total	0.0099		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Magnesium (Mg)-Total	36.9		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Manganese (Mn)-Total	0.0906		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		27-NOV-20	R5298809
Molybdenum (Mo)-Total	0.0169		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Nickel (Ni)-Total	0.00162		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Potassium (K)-Total	1.91		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Rubidium (Rb)-Total	0.00106		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Selenium (Se)-Total	0.000226		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Silicon (Si)-Total	7.25		0.10	mg/L	26-NOV-20	27-NOV-20	R5298095
Silver (Ag)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Sodium (Na)-Total	6.78		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Strontium (Sr)-Total	0.158		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Sulfur (S)-Total	8.99		0.50	mg/L	26-NOV-20	27-NOV-20	R5298095
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Tin (Sn)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Titanium (Ti)-Total	0.00891		0.00030	mg/L	26-NOV-20	27-NOV-20	R5298095
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Uranium (U)-Total	0.00200		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Total Metals							
Vanadium (V)-Total	0.00087		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	26-NOV-20	27-NOV-20	R5298095
Zirconium (Zr)-Total	0.00022		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298103
Dissolved Metals Filtration Location	FIELD					26-NOV-20	R5297816
Antimony (Sb)-Dissolved	0.15		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Arsenic (As)-Dissolved	0.31		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Barium (Ba)-Dissolved	67.9		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Beryllium (Be)-Dissolved	<0.10		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Boron (B)-Dissolved	11		10	ug/L	26-NOV-20	26-NOV-20	R5298475
Cadmium (Cd)-Dissolved	<0.010		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Chromium (Cr)-Dissolved	<0.50		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Cobalt (Co)-Dissolved	0.57		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Copper (Cu)-Dissolved	3.02		0.20	ug/L	26-NOV-20	26-NOV-20	R5298475
Lead (Pb)-Dissolved	0.109		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Mercury (Hg)-Dissolved	<0.0050		0.0050	ug/L	26-NOV-20	27-NOV-20	R5298836
Molybdenum (Mo)-Dissolved	15.8		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Nickel (Ni)-Dissolved	1.35		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Selenium (Se)-Dissolved	0.278		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Silver (Ag)-Dissolved	<0.050		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Sodium (Na)-Dissolved	6870		500	ug/L	26-NOV-20	26-NOV-20	R5298475
Thallium (Tl)-Dissolved	<0.010		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Uranium (U)-Dissolved	1.86		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Vanadium (V)-Dissolved	<0.50		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Zinc (Zn)-Dissolved	1.7		1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Speciated Metals							
Chromium, Hexavalent	<0.50		0.50	ug/L		25-NOV-20	R5297893
Aggregate Organics							
Oil and Grease, Total	<5.0		5.0	mg/L	26-NOV-20	26-NOV-20	R5298859
Animal/Veg Oil & Grease	<5.0		5.0	mg/L		27-NOV-20	
Mineral Oil and Grease	<2.5		2.5	mg/L	26-NOV-20	26-NOV-20	R5298859
Volatile Organic Compounds							
Acetone	<30		30	ug/L		30-NOV-20	R5299578
Benzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Bromodichloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Bromoform	<5.0		5.0	ug/L		30-NOV-20	R5299578
Bromomethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Carbon tetrachloride	<0.20		0.20	ug/L		30-NOV-20	R5299578
Chlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dibromochloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Chloroform	<1.0		1.0	ug/L		30-NOV-20	R5299578

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Volatile Organic Compounds							
1,2-Dibromoethane	<0.20		0.20	ug/L		30-NOV-20	R5299578
1,2-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,3-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,4-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dichlorodifluoromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
1,1-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,2-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methylene Chloride	<5.0		5.0	ug/L		30-NOV-20	R5299578
1,2-Dichloropropane	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
trans-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L		30-NOV-20	
Ethylbenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
n-Hexane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methyl Ethyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
Methyl Isobutyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
MTBE	<2.0		2.0	ug/L		30-NOV-20	R5299578
Styrene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Tetrachloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Toluene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichlorofluoromethane	<5.0		5.0	ug/L		30-NOV-20	R5299578
Vinyl chloride	<0.50		0.50	ug/L		30-NOV-20	R5299578
o-Xylene	<0.30		0.30	ug/L		30-NOV-20	R5299578
m+p-Xylenes	<0.40		0.40	ug/L		30-NOV-20	R5299578
Xylenes (Total)	<0.50		0.50	ug/L		30-NOV-20	
Surrogate: 4-Bromofluorobenzene	98.0		70-130	%		30-NOV-20	R5299578
Surrogate: 1,4-Difluorobenzene	100.4		70-130	%		30-NOV-20	R5299578
Hydrocarbons							
F1 (C6-C10)	<25		25	ug/L		30-NOV-20	R5299578
F1-BTEX	<25		25	ug/L		30-NOV-20	
F2 (C10-C16)	<100		100	ug/L	25-NOV-20	26-NOV-20	R5298486
F2-Naphth	<100		100	ug/L		30-NOV-20	
F3 (C16-C34)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Hydrocarbons							
F3-PAH	<250		250	ug/L		30-NOV-20	
F4 (C34-C50)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
Total Hydrocarbons (C6-C50)	<370		370	ug/L		30-NOV-20	
Chrom. to baseline at nC50	YES				25-NOV-20	26-NOV-20	R5298486
Surrogate: 2-Bromobenzotrifluoride	90.2		60-140	%	25-NOV-20	26-NOV-20	R5298486
Surrogate: 3,4-Dichlorotoluene	79.0		60-140	%		30-NOV-20	R5299578
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Acenaphthylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)pyrene	<0.010		0.010	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(b)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(k)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Chrysene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluoranthene	0.059		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluorene	0.031	AI	0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
1+2-Methylnaphthalenes	0.067		0.028	ug/L		27-NOV-20	
1-Methylnaphthalene	0.024		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
2-Methylnaphthalene	0.043		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Naphthalene	<0.050		0.050	ug/L	25-NOV-20	27-NOV-20	R5298949
Phenanthrene	0.210		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Pyrene	0.059		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Acenaphthene	82.3		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d12-Chrysene	90.5		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d8-Naphthalene	85.6		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Phenanthrene	93.0		60-140	%	25-NOV-20	27-NOV-20	R5298949
Semi-Volatile Organics							
Biphenyl	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
4-Chloroaniline	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2-Chlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dichlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
Diethylphthalate	0.29	RRR	0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Dimethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dimethylphenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-3 GW-11210029-112420-MW-3 Sampled By: CLIENT on 24-NOV-20 @ 13:45 Matrix: WATER							
Semi-Volatile Organics							
2,4-Dinitrophenol	<1.0		1.0	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,6-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4+2,6-Dinitrotoluene	<0.57		0.57	ug/L		27-NOV-20	
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	25-NOV-20	27-NOV-20	R5298692
Pentachlorophenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
Phenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,5-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,6-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2-Fluorobiphenyl	91.1		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: Nitrobenzene d5	120.5		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: p-Terphenyl d14	110.3		60-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2,4,6-Tribromophenol	127.7		50-140	%	25-NOV-20	27-NOV-20	R5298692
Report Remarks : RRR: Although the method blank is non-detect there is a strong peak for Diethylphthalate causing uncertainty near the detection limit, interpret as a maximum value.							
L2533335-4 GW-11210029-112520-MW-1 Sampled By: CLIENT on 25-NOV-20 @ 11:20 Matrix: WATER							
Physical Tests							
Conductivity	0.557		0.0030	mS/cm		26-NOV-20	R5299316
pH	8.07		0.10	pH units		26-NOV-20	R5299316
Anions and Nutrients							
Chloride (Cl)	8.17		0.50	mg/L		27-NOV-20	R5299616
Cyanides							
Cyanide, Weak Acid Diss	<2.0		2.0	ug/L		26-NOV-20	R5298560
Total Metals							
Aluminum (Al)-Total	0.352		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Antimony (Sb)-Total	0.00023		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Arsenic (As)-Total	0.00057		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Barium (Ba)-Total	0.0729		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Boron (B)-Total	0.024		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Cadmium (Cd)-Total	0.0000257		0.0000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Calcium (Ca)-Total	71.4		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cesium (Cs)-Total	0.000033		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Chromium (Cr)-Total	0.00088		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Cobalt (Co)-Total	0.00059		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Copper (Cu)-Total	0.00139		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Iron (Fe)-Total	0.417		0.010	mg/L	26-NOV-20	27-NOV-20	R5298095
Lead (Pb)-Total	0.000628		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Lithium (Li)-Total	0.0091		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-4 GW-11210029-112520-MW-1 Sampled By: CLIENT on 25-NOV-20 @ 11:20 Matrix: WATER							
Total Metals							
Magnesium (Mg)-Total	30.1		0.0050	mg/L	26-NOV-20	27-NOV-20	R5298095
Manganese (Mn)-Total	0.114		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L		27-NOV-20	R5298809
Molybdenum (Mo)-Total	0.00424		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Nickel (Ni)-Total	0.00146		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Phosphorus (P)-Total	<0.050		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Potassium (K)-Total	4.10		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Rubidium (Rb)-Total	0.00100		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Selenium (Se)-Total	0.000074		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Silicon (Si)-Total	6.11		0.10	mg/L	26-NOV-20	27-NOV-20	R5298095
Silver (Ag)-Total	<0.000050		0.000050	mg/L	26-NOV-20	27-NOV-20	R5298095
Sodium (Na)-Total	8.50		0.050	mg/L	26-NOV-20	27-NOV-20	R5298095
Strontium (Sr)-Total	0.257		0.0010	mg/L	26-NOV-20	27-NOV-20	R5298095
Sulfur (S)-Total	8.36		0.50	mg/L	26-NOV-20	27-NOV-20	R5298095
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Thallium (Tl)-Total	0.000011		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Thorium (Th)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Tin (Sn)-Total	0.00016		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Titanium (Ti)-Total	0.0128		0.00030	mg/L	26-NOV-20	27-NOV-20	R5298095
Tungsten (W)-Total	<0.00010		0.00010	mg/L	26-NOV-20	27-NOV-20	R5298095
Uranium (U)-Total	0.000879		0.000010	mg/L	26-NOV-20	27-NOV-20	R5298095
Vanadium (V)-Total	0.00092		0.00050	mg/L	26-NOV-20	27-NOV-20	R5298095
Zinc (Zn)-Total	0.0065		0.0030	mg/L	26-NOV-20	27-NOV-20	R5298095
Zirconium (Zr)-Total	0.00037		0.00020	mg/L	26-NOV-20	27-NOV-20	R5298095
Dissolved Metals							
Dissolved Mercury Filtration Location	FIELD					26-NOV-20	R5298103
Dissolved Metals Filtration Location	FIELD					26-NOV-20	R5297816
Antimony (Sb)-Dissolved	0.18		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Arsenic (As)-Dissolved	0.41		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Barium (Ba)-Dissolved	67.5		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Beryllium (Be)-Dissolved	<0.10		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Boron (B)-Dissolved	22		10	ug/L	26-NOV-20	26-NOV-20	R5298475
Cadmium (Cd)-Dissolved	<0.010		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Chromium (Cr)-Dissolved	<0.50		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Cobalt (Co)-Dissolved	0.39		0.10	ug/L	26-NOV-20	26-NOV-20	R5298475
Copper (Cu)-Dissolved	0.66		0.20	ug/L	26-NOV-20	26-NOV-20	R5298475
Lead (Pb)-Dissolved	<0.050		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Mercury (Hg)-Dissolved	<0.0050		0.0050	ug/L	26-NOV-20	27-NOV-20	R5298836
Molybdenum (Mo)-Dissolved	3.77		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Nickel (Ni)-Dissolved	0.88		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Selenium (Se)-Dissolved	0.069		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-4 GW-11210029-112520-MW-1 Sampled By: CLIENT on 25-NOV-20 @ 11:20 Matrix: WATER							
Dissolved Metals							
Silver (Ag)-Dissolved	<0.050		0.050	ug/L	26-NOV-20	26-NOV-20	R5298475
Sodium (Na)-Dissolved	8450		500	ug/L	26-NOV-20	26-NOV-20	R5298475
Thallium (Tl)-Dissolved	<0.010		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Uranium (U)-Dissolved	0.764		0.010	ug/L	26-NOV-20	26-NOV-20	R5298475
Vanadium (V)-Dissolved	<0.50		0.50	ug/L	26-NOV-20	26-NOV-20	R5298475
Zinc (Zn)-Dissolved	1.3		1.0	ug/L	26-NOV-20	26-NOV-20	R5298475
Speciated Metals							
Chromium, Hexavalent	<0.50		0.50	ug/L		25-NOV-20	R5297893
Aggregate Organics							
Oil and Grease, Total	<5.0		5.0	mg/L	26-NOV-20	26-NOV-20	R5298859
Animal/Veg Oil & Grease	<5.0		5.0	mg/L		27-NOV-20	
Mineral Oil and Grease	<2.5		2.5	mg/L	26-NOV-20	26-NOV-20	R5298859
Volatile Organic Compounds							
Acetone	<30		30	ug/L		30-NOV-20	R5299578
Benzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Bromodichloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Bromoform	<5.0		5.0	ug/L		30-NOV-20	R5299578
Bromomethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Carbon tetrachloride	<0.20		0.20	ug/L		30-NOV-20	R5299578
Chlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dibromochloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Chloroform	<1.0		1.0	ug/L		30-NOV-20	R5299578
1,2-Dibromoethane	<0.20		0.20	ug/L		30-NOV-20	R5299578
1,2-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,3-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,4-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dichlorodifluoromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
1,1-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,2-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methylene Chloride	<5.0		5.0	ug/L		30-NOV-20	R5299578
1,2-Dichloropropane	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
trans-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L		30-NOV-20	
Ethylbenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
n-Hexane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methyl Ethyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
Methyl Isobutyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
MTBE	<2.0		2.0	ug/L		30-NOV-20	R5299578

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-4 GW-11210029-112520-MW-1 Sampled By: CLIENT on 25-NOV-20 @ 11:20 Matrix: WATER							
Volatile Organic Compounds							
Styrene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Tetrachloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Toluene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichlorofluoromethane	<5.0		5.0	ug/L		30-NOV-20	R5299578
Vinyl chloride	<0.50		0.50	ug/L		30-NOV-20	R5299578
o-Xylene	<0.30		0.30	ug/L		30-NOV-20	R5299578
m+p-Xylenes	<0.40		0.40	ug/L		30-NOV-20	R5299578
Xylenes (Total)	<0.50		0.50	ug/L		30-NOV-20	
Surrogate: 4-Bromofluorobenzene	98.1		70-130	%		30-NOV-20	R5299578
Surrogate: 1,4-Difluorobenzene	100.3		70-130	%		30-NOV-20	R5299578
Hydrocarbons							
F1 (C6-C10)	<25		25	ug/L		30-NOV-20	R5299578
F1-BTEX	<25		25	ug/L		30-NOV-20	
F2 (C10-C16)	<100		100	ug/L	25-NOV-20	26-NOV-20	R5298486
F2-Naphth	<100		100	ug/L		30-NOV-20	
F3 (C16-C34)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
F3-PAH	<250		250	ug/L		30-NOV-20	
F4 (C34-C50)	<250		250	ug/L	25-NOV-20	26-NOV-20	R5298486
Total Hydrocarbons (C6-C50)	<370		370	ug/L		30-NOV-20	
Chrom. to baseline at nC50	YES				25-NOV-20	26-NOV-20	R5298486
Surrogate: 2-Bromobenzotrifluoride	95.5		60-140	%	25-NOV-20	26-NOV-20	R5298486
Surrogate: 3,4-Dichlorotoluene	83.6		60-140	%		30-NOV-20	R5299578
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Acenaphthylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(a)pyrene	<0.010		0.010	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(b)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(g,h,i)perylene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Benzo(k)fluoranthene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Chrysene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Dibenzo(ah)anthracene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluoranthene	0.091		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Fluorene	0.053		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Indeno(1,2,3-cd)pyrene	<0.020		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-4 GW-11210029-112520-MW-1 Sampled By: CLIENT on 25-NOV-20 @ 11:20 Matrix: WATER							
Polycyclic Aromatic Hydrocarbons							
1+2-Methylnaphthalenes	0.141		0.028	ug/L		27-NOV-20	
1-Methylnaphthalene	0.047		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
2-Methylnaphthalene	0.094		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Naphthalene	0.073		0.050	ug/L	25-NOV-20	27-NOV-20	R5298949
Phenanthrene	0.384		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Pyrene	0.096		0.020	ug/L	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Acenaphthene	87.0		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d12-Chrysene	95.0		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d8-Naphthalene	89.7		60-140	%	25-NOV-20	27-NOV-20	R5298949
Surrogate: d10-Phenanthrene	93.0		60-140	%	25-NOV-20	27-NOV-20	R5298949
Semi-Volatile Organics							
Biphenyl	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
4-Chloroaniline	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroethyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
Bis(2-chloroisopropyl)ether	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2-Chlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
3,3'-Dichlorobenzidine	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dichlorophenol	<0.30		0.30	ug/L	25-NOV-20	27-NOV-20	R5298692
Diethylphthalate	0.29	RRR	0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Dimethylphthalate	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dimethylphenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrophenol	<1.0		1.0	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,6-Dinitrotoluene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4+2,6-Dinitrotoluene	<0.57		0.57	ug/L		27-NOV-20	
Bis(2-ethylhexyl)phthalate	<2.0		2.0	ug/L	25-NOV-20	27-NOV-20	R5298692
Pentachlorophenol	<0.50		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
Phenol	0.53		0.50	ug/L	25-NOV-20	27-NOV-20	R5298692
1,2,4-Trichlorobenzene	<0.40		0.40	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,5-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
2,4,6-Trichlorophenol	<0.20		0.20	ug/L	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2-Fluorobiphenyl	86.5		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: Nitrobenzene d5	92.9		50-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: p-Terphenyl d14	81.5		60-140	%	25-NOV-20	27-NOV-20	R5298692
Surrogate: 2,4,6-Tribromophenol	122.9		50-140	%	25-NOV-20	27-NOV-20	R5298692
Report Remarks : RRR: Although the method blank is non-detect there is a strong peak for Diethylphthalate causing uncertainty near the detection limit, interpret as a maximum value.							
L2533335-5 TRIP BLANK Sampled By: CLIENT on 25-NOV-20 @ 12:00 Matrix: WATER							
Volatile Organic Compounds							
Acetone	<30		30	ug/L		30-NOV-20	R5299578

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-5 TRIP BLANK Sampled By: CLIENT on 25-NOV-20 @ 12:00 Matrix: WATER							
Volatile Organic Compounds							
Benzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Bromodichloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Bromoform	<5.0		5.0	ug/L		30-NOV-20	R5299578
Bromomethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Carbon tetrachloride	<0.20		0.20	ug/L		30-NOV-20	R5299578
Chlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dibromochloromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
Chloroform	<1.0		1.0	ug/L		30-NOV-20	R5299578
1,2-Dibromoethane	<0.20		0.20	ug/L		30-NOV-20	R5299578
1,2-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,3-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,4-Dichlorobenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Dichlorodifluoromethane	<2.0		2.0	ug/L		30-NOV-20	R5299578
1,1-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,2-Dichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methylene Chloride	<5.0		5.0	ug/L		30-NOV-20	R5299578
1,2-Dichloropropane	<0.50		0.50	ug/L		30-NOV-20	R5299578
cis-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
trans-1,3-Dichloropropene	<0.30		0.30	ug/L		30-NOV-20	R5299578
1,3-Dichloropropene (cis & trans)	<0.50		0.50	ug/L		30-NOV-20	
Ethylbenzene	<0.50		0.50	ug/L		30-NOV-20	R5299578
n-Hexane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Methyl Ethyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
Methyl Isobutyl Ketone	<20		20	ug/L		30-NOV-20	R5299578
MTBE	<2.0		2.0	ug/L		30-NOV-20	R5299578
Styrene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Tetrachloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Toluene	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,1-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
1,1,2-Trichloroethane	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichloroethylene	<0.50		0.50	ug/L		30-NOV-20	R5299578
Trichlorofluoromethane	<5.0		5.0	ug/L		30-NOV-20	R5299578
Vinyl chloride	<0.50		0.50	ug/L		30-NOV-20	R5299578
o-Xylene	<0.30		0.30	ug/L		30-NOV-20	R5299578
m+p-Xylenes	<0.40		0.40	ug/L		30-NOV-20	R5299578
Xylenes (Total)	<0.50		0.50	ug/L		30-NOV-20	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2533335-5 TRIP BLANK Sampled By: CLIENT on 25-NOV-20 @ 12:00 Matrix: WATER							
Volatile Organic Compounds							
Surrogate: 4-Bromofluorobenzene	98.4		70-130	%		30-NOV-20	R5299578
Surrogate: 1,4-Difluorobenzene	100.4		70-130	%		30-NOV-20	R5299578
Hydrocarbons							
F1 (C6-C10)	<25		25	ug/L		30-NOV-20	R5299578
F1-BTEX	<25		25	ug/L		30-NOV-20	
Surrogate: 3,4-Dichlorotoluene	86.6		60-140	%		30-NOV-20	R5299578

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Cyanide, Weak Acid Diss	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Aluminum (Al)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Barium (Ba)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Boron (B)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Calcium (Ca)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Iron (Fe)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Lithium (Li)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Magnesium (Mg)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Molybdenum (Mo)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Potassium (K)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Rubidium (Rb)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Silicon (Si)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Sodium (Na)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Strontium (Sr)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Sulfur (S)-Total	MS-B	L2533335-1, -2, -3, -4
Matrix Spike	Uranium (U)-Total	MS-B	L2533335-1, -2, -3, -4

Sample Parameter Qualifier key listed:

Qualifier	Description
AI	Analytical interferences may be present. Result may be biased high.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRR	Refer to Report Remarks for issues regarding this analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
625-511-WT	Water	ABN,CP,PAH-O.Reg 153/04	SW846 8270 (511)

Ground water sample extraction is carried out at a pH <2 (acid extractables) and pH>11 (base neutral extractables). Extracts are dried, concentrated and exchanged into a solvent compatible with the cleanup. Analysis is by GC/MS. Depending on the analytical GC/MS column used benzo(j)fluoranthene may chromatographically co-elute with benzo(b)fluoranthene or benzo(k)fluoranthene.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

CL-IC-N-WT	Water	Chloride by IC	EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CN-WAD-R511-WT	Water	Cyanide (WAD)-O.Reg 153/04	APHA 4500CN I-Weak acid Dist Colorimet

Weak acid dissociable cyanide (WAD) is determined by undergoing a distillation procedure. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-R511-WT	Water	Hex Chrom-O.Reg 153/04 (July 2011)	EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DINITROTOL-CALC-WT	Water	ABN-Calculated Parameters	SW846 8270
EC-R511-WT	Water	Conductivity-O.Reg 153/04 (July 2011)	APHA 2510 B

Water samples can be measured directly by immersing the conductivity cell into the sample.

Reference Information

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-SCREEN-WT	Water	Conductivity Screen (Internal Use Only)	APHA 2510

Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.

F1-F4-511-CALC-WT	Water	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-L

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Water	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS

Fraction F1 is determined by analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Water	F2-F4-O.Reg 153/04 (July 2011)	EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-D-UG/L-CVAA-WT	Water	Diss. Mercury in Water by CVAAS (ug/L)	EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-T-CVAA-WT	Water	Total Mercury in Water by CVAAS	EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

MET-D-UG/L-MS-WT	Water	Diss. Metals in Water by ICPMS (ug/L)	EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MET-T-CCMS-WT	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Reference Information

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

METHYLNAPS-CALC-WT	Water	PAH-Calculated Parameters	SW846 8270

OGG-SPEC-CALC-WT	Water	Speciated Oil and Grease A/V Calc	CALCULATION

Sample is extracted with hexane, sample speciation into mineral and animal/vegetable fractions is achieved via silica gel separation and is then determined gravimetrically.

OGG-SPEC-WT	Water	Speciated Oil and Grease-Gravimetric	APHA 5520 B

The procedure involves an extraction of the entire water sample with hexane. Sample speciation into mineral and animal/vegetable fractions is achieved via silica gel separation and is then determined gravimetrically.

PAH-511-WT	Water	PAH-O. Reg 153/04 (July 2011)	SW846 3510/8270

Aqueous samples, fortified with surrogates, are extracted using liquid/liquid extraction technique. The sample extracts are concentrated and then analyzed using GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT	Water	pH	APHA 4500 H-Electrode

Water samples are analyzed directly by a calibrated pH meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011). Holdtime for samples under this regulation is 28 days

VOC-1,3-DCP-CALC-WT	Water	Regulation 153 VOCs	SW8260B/SW8270C

VOC-511-HS-WT	Water	VOC by GCMS HS O.Reg 153/04 (July 2011)	SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

17-871527

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Water**							
Batch R5298692								
WG3451657-2 LCS								
1,2,4-Trichlorobenzene			89.1		%		50-140	27-NOV-20
2-Chlorophenol			84.1		%		50-140	27-NOV-20
2,4-Dichlorophenol			96.6		%		50-140	27-NOV-20
2,4-Dimethylphenol			76.6		%		30-130	27-NOV-20
2,4-Dinitrophenol			117.8		%		50-140	27-NOV-20
2,4-Dinitrotoluene			119.4		%		50-140	27-NOV-20
2,4,5-Trichlorophenol			101.0		%		50-140	27-NOV-20
2,4,6-Trichlorophenol			99.2		%		50-140	27-NOV-20
2,6-Dinitrotoluene			99.4		%		50-140	27-NOV-20
3,3'-Dichlorobenzidine			84.7		%		30-130	27-NOV-20
4-Chloroaniline			85.2		%		30-130	27-NOV-20
Biphenyl			97.8		%		50-140	27-NOV-20
Bis(2-chloroethyl)ether			88.4		%		50-140	27-NOV-20
Bis(2-chloroisopropyl)ether			87.1		%		50-140	27-NOV-20
Bis(2-ethylhexyl)phthalate			107.8		%		50-140	27-NOV-20
Diethylphthalate			94.7		%		50-140	27-NOV-20
Dimethylphthalate			93.5		%		50-140	27-NOV-20
Pentachlorophenol			112.4		%		50-140	27-NOV-20
Phenol			115.9		%		30-130	27-NOV-20
WG3451657-1 MB								
1,2,4-Trichlorobenzene			<0.40		ug/L		0.4	27-NOV-20
2-Chlorophenol			<0.30		ug/L		0.3	27-NOV-20
2,4-Dichlorophenol			<0.30		ug/L		0.3	27-NOV-20
2,4-Dimethylphenol			<0.50		ug/L		0.5	27-NOV-20
2,4-Dinitrophenol			<1.0		ug/L		1	27-NOV-20
2,4-Dinitrotoluene			<0.40		ug/L		0.4	27-NOV-20
2,4,5-Trichlorophenol			<0.20		ug/L		0.2	27-NOV-20
2,4,6-Trichlorophenol			<0.20		ug/L		0.2	27-NOV-20
2,6-Dinitrotoluene			<0.40		ug/L		0.4	27-NOV-20
3,3'-Dichlorobenzidine			<0.40		ug/L		0.4	27-NOV-20
4-Chloroaniline			<0.40		ug/L		0.4	27-NOV-20
Biphenyl			<0.40		ug/L		0.4	27-NOV-20
Bis(2-chloroethyl)ether			<0.40		ug/L		0.4	27-NOV-20
Bis(2-chloroisopropyl)ether			<0.40		ug/L		0.4	27-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-511-WT	**Water**							
Batch R5298692								
WG3451657-1 MB								
Bis(2-ethylhexyl)phthalate			<2.0		ug/L		2	27-NOV-20
Diethylphthalate			<0.20		ug/L		0.2	27-NOV-20
Dimethylphthalate			<0.20		ug/L		0.2	27-NOV-20
Pentachlorophenol			<0.50		ug/L		0.5	27-NOV-20
Phenol			<0.50		ug/L		0.5	27-NOV-20
Surrogate: 2-Fluorobiphenyl			84.6		%		50-140	27-NOV-20
Surrogate: 2,4,6-Tribromophenol			72.1		%		50-140	27-NOV-20
Surrogate: Nitrobenzene d5			83.5		%		50-140	27-NOV-20
Surrogate: p-Terphenyl d14			103.5		%		60-140	27-NOV-20
CL-IC-N-WT	**Water**							
Batch R5299616								
WG3453128-4 DUP		**WG3453128-3**						
Chloride (Cl)		2.94	2.94		mg/L	0.2	20	27-NOV-20
WG3453128-2 LCS								
Chloride (Cl)			101.6		%		90-110	27-NOV-20
WG3453128-1 MB								
Chloride (Cl)			<0.50		mg/L		0.5	27-NOV-20
WG3453128-5 MS		**WG3453128-3**						
Chloride (Cl)			99.9		%		75-125	27-NOV-20
CN-WAD-R511-WT	**Water**							
Batch R5298560								
WG3451693-3 DUP		**WG3451693-5**						
Cyanide, Weak Acid Diss		655	652		ug/L	0.4	20	26-NOV-20
WG3451693-2 LCS								
Cyanide, Weak Acid Diss			101.9		%		80-120	26-NOV-20
WG3451693-1 MB								
Cyanide, Weak Acid Diss			<2.0		ug/L		2	26-NOV-20
WG3451693-4 MS		**WG3451693-5**						
Cyanide, Weak Acid Diss			N/A	MS-B	%		-	26-NOV-20
CR-CR6-IC-R511-WT	**Water**							
Batch R5297893								
WG3451701-4 DUP		**WG3451701-3**						
Chromium, Hexavalent		<0.50	<0.50	RPD-NA	ug/L	N/A	20	25-NOV-20
WG3451701-2 LCS								
Chromium, Hexavalent			99.4		%		80-120	25-NOV-20
WG3451701-1 MB								

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-IC-R511-WT	**Water**							
Batch R5297893								
WG3451701-1 MB								
Chromium, Hexavalent			<0.50		ug/L		0.5	25-NOV-20
WG3451701-5 MS		**WG3451701-3**						
Chromium, Hexavalent			96.8		%		70-130	25-NOV-20
EC-R511-WT	**Water**							
Batch R5298244								
WG3452155-4 DUP		**WG3452155-3**						
Conductivity		0.241	0.245		mS/cm	1.6	10	26-NOV-20
WG3452155-2 LCS								
Conductivity			99.7		%		90-110	26-NOV-20
WG3452155-1 MB								
Conductivity			<0.0030		mS/cm		0.003	26-NOV-20
Batch R5299316								
WG3452156-4 DUP		**WG3452156-3**						
Conductivity		0.539	0.543		mS/cm	0.7	10	26-NOV-20
WG3452156-2 LCS								
Conductivity			99.2		%		90-110	26-NOV-20
WG3452156-1 MB								
Conductivity			<0.0030		mS/cm		0.003	26-NOV-20
F1-HS-511-WT	**Water**							
Batch R5299578								
WG3453379-4 DUP		**WG3453379-3**						
F1 (C6-C10)		<25	<25	RPD-NA	ug/L	N/A	30	30-NOV-20
WG3453379-1 LCS								
F1 (C6-C10)			105.9		%		80-120	30-NOV-20
WG3453379-2 MB								
F1 (C6-C10)			<25		ug/L		25	30-NOV-20
Surrogate: 3,4-Dichlorotoluene			101.5		%		60-140	30-NOV-20
WG3453379-5 MS		**WG3453379-3**						
F1 (C6-C10)			83.4		%		60-140	30-NOV-20
F2-F4-511-WT	**Water**							
Batch R5298486								
WG3451674-2 LCS								
F2 (C10-C16)			99.9		%		70-130	26-NOV-20
F3 (C16-C34)			105.1		%		70-130	26-NOV-20
F4 (C34-C50)			103.1		%		70-130	26-NOV-20
WG3451674-1 MB								

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Water**							
Batch R5298486								
WG3451674-1 MB								
F2 (C10-C16)			<100		ug/L		100	26-NOV-20
F3 (C16-C34)			<250		ug/L		250	26-NOV-20
F4 (C34-C50)			<250		ug/L		250	26-NOV-20
Surrogate: 2-Bromobenzotrifluoride			89.9		%		60-140	26-NOV-20
HG-D-UG/L-CVAA-WT	**Water**							
Batch R5298836								
WG3452289-3 DUP		**L2532511-4**						
Mercury (Hg)-Dissolved		<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	27-NOV-20
WG3452289-2 LCS								
Mercury (Hg)-Dissolved			109.0		%		80-120	27-NOV-20
WG3452289-1 MB								
Mercury (Hg)-Dissolved			<0.0050		ug/L		0.005	27-NOV-20
WG3452289-4 MS		**L2532511-5**						
Mercury (Hg)-Dissolved			99.7		%		70-130	27-NOV-20
HG-T-CVAA-WT	**Water**							
Batch R5298809								
WG3452162-4 DUP		**WG3452162-3**						
Mercury (Hg)-Total		0.0000063	0.0000077	J	mg/L	0.0000014	0.00001	27-NOV-20
WG3452162-2 LCS								
Mercury (Hg)-Total			108.0		%		80-120	27-NOV-20
WG3452162-1 MB								
Mercury (Hg)-Total			<0.000005(		mg/L		0.000005	27-NOV-20
WG3452162-6 MS		**WG3452162-5**						
Mercury (Hg)-Total			110.7		%		70-130	27-NOV-20
MET-D-UG/L-MS-WT	**Water**							
Batch R5298475								
WG3451975-4 DUP		**WG3451975-3**						
Antimony (Sb)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	26-NOV-20
Arsenic (As)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	26-NOV-20
Barium (Ba)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	26-NOV-20
Beryllium (Be)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	26-NOV-20
Boron (B)-Dissolved		<10	<10	RPD-NA	ug/L	N/A	20	26-NOV-20
Cadmium (Cd)-Dissolved		<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	26-NOV-20
Chromium (Cr)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	26-NOV-20
Cobalt (Co)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5298475								
WG3451975-4 DUP		**WG3451975-3**						
Copper (Cu)-Dissolved		<0.20	<0.20	RPD-NA	ug/L	N/A	20	26-NOV-20
Lead (Pb)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	26-NOV-20
Molybdenum (Mo)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	26-NOV-20
Nickel (Ni)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	26-NOV-20
Selenium (Se)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	26-NOV-20
Silver (Ag)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	26-NOV-20
Sodium (Na)-Dissolved		<50	<50	RPD-NA	ug/L	N/A	20	26-NOV-20
Thallium (Tl)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	26-NOV-20
Uranium (U)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	26-NOV-20
Vanadium (V)-Dissolved		<0.50	<0.50	RPD-NA	ug/L	N/A	20	26-NOV-20
Zinc (Zn)-Dissolved		<1.0	<1.0	RPD-NA	ug/L	N/A	20	26-NOV-20
WG3451975-2 LCS								
Antimony (Sb)-Dissolved			103.4		%		80-120	26-NOV-20
Arsenic (As)-Dissolved			100.6		%		80-120	26-NOV-20
Barium (Ba)-Dissolved			98.3		%		80-120	26-NOV-20
Beryllium (Be)-Dissolved			103.7		%		80-120	26-NOV-20
Boron (B)-Dissolved			102.4		%		80-120	26-NOV-20
Cadmium (Cd)-Dissolved			99.6		%		80-120	26-NOV-20
Chromium (Cr)-Dissolved			99.1		%		80-120	26-NOV-20
Cobalt (Co)-Dissolved			97.8		%		80-120	26-NOV-20
Copper (Cu)-Dissolved			97.8		%		80-120	26-NOV-20
Lead (Pb)-Dissolved			100.8		%		80-120	26-NOV-20
Molybdenum (Mo)-Dissolved			103.1		%		80-120	26-NOV-20
Nickel (Ni)-Dissolved			99.3		%		80-120	26-NOV-20
Selenium (Se)-Dissolved			101.1		%		80-120	26-NOV-20
Silver (Ag)-Dissolved			99.6		%		80-120	26-NOV-20
Sodium (Na)-Dissolved			101.6		%		80-120	26-NOV-20
Thallium (Tl)-Dissolved			100.3		%		80-120	26-NOV-20
Uranium (U)-Dissolved			101.4		%		80-120	26-NOV-20
Vanadium (V)-Dissolved			101.3		%		80-120	26-NOV-20
Zinc (Zn)-Dissolved			98.1		%		80-120	26-NOV-20
WG3451975-1 MB								
Antimony (Sb)-Dissolved			<0.10		ug/L		0.1	26-NOV-20
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5298475								
WG3451975-1 MB								
Arsenic (As)-Dissolved			<0.10		ug/L		0.1	26-NOV-20
Barium (Ba)-Dissolved			<0.10		ug/L		0.1	26-NOV-20
Beryllium (Be)-Dissolved			<0.10		ug/L		0.1	26-NOV-20
Boron (B)-Dissolved			<10		ug/L		10	26-NOV-20
Cadmium (Cd)-Dissolved			<0.0050		ug/L		0.005	26-NOV-20
Chromium (Cr)-Dissolved			<0.50		ug/L		0.5	26-NOV-20
Cobalt (Co)-Dissolved			<0.10		ug/L		0.1	26-NOV-20
Copper (Cu)-Dissolved			<0.20		ug/L		0.2	26-NOV-20
Lead (Pb)-Dissolved			<0.050		ug/L		0.05	26-NOV-20
Molybdenum (Mo)-Dissolved			<0.050		ug/L		0.05	26-NOV-20
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	26-NOV-20
Selenium (Se)-Dissolved			<0.050		ug/L		0.05	26-NOV-20
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	26-NOV-20
Sodium (Na)-Dissolved			<50		ug/L		50	26-NOV-20
Thallium (Tl)-Dissolved			<0.010		ug/L		0.01	26-NOV-20
Uranium (U)-Dissolved			<0.010		ug/L		0.01	26-NOV-20
Vanadium (V)-Dissolved			<0.50		ug/L		0.5	26-NOV-20
Zinc (Zn)-Dissolved			<1.0		ug/L		1	26-NOV-20
WG3451975-5 MS		**WG3451975-3**						
Antimony (Sb)-Dissolved			101.4		%		70-130	26-NOV-20
Arsenic (As)-Dissolved			101.2		%		70-130	26-NOV-20
Barium (Ba)-Dissolved			100.4		%		70-130	26-NOV-20
Beryllium (Be)-Dissolved			100.9		%		70-130	26-NOV-20
Boron (B)-Dissolved			97.2		%		70-130	26-NOV-20
Cadmium (Cd)-Dissolved			101.7		%		70-130	26-NOV-20
Chromium (Cr)-Dissolved			100.4		%		70-130	26-NOV-20
Cobalt (Co)-Dissolved			98.8		%		70-130	26-NOV-20
Copper (Cu)-Dissolved			99.1		%		70-130	26-NOV-20
Lead (Pb)-Dissolved			100.5		%		70-130	26-NOV-20
Molybdenum (Mo)-Dissolved			99.7		%		70-130	26-NOV-20
Nickel (Ni)-Dissolved			99.3		%		70-130	26-NOV-20
Selenium (Se)-Dissolved			104.5		%		70-130	26-NOV-20
Silver (Ag)-Dissolved			98.8		%		70-130	26-NOV-20
Sodium (Na)-Dissolved			101.7		%		70-130	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	**Water**							
Batch R5298475								
WG3451975-5 MS		**WG3451975-3**						
Thallium (Tl)-Dissolved			101.6		%		70-130	26-NOV-20
Uranium (U)-Dissolved			99.2		%		70-130	26-NOV-20
Vanadium (V)-Dissolved			101.5		%		70-130	26-NOV-20
Zinc (Zn)-Dissolved			101.1		%		70-130	26-NOV-20
MET-T-CCMS-WT	**Water**							
Batch R5298095								
WG3451966-4 DUP		**WG3451966-3**						
Aluminum (Al)-Total		0.164	0.172		mg/L	4.4	20	26-NOV-20
Antimony (Sb)-Total		0.0013	0.0013		mg/L	2.5	20	26-NOV-20
Arsenic (As)-Total		0.0016	0.0018		mg/L	11	20	26-NOV-20
Barium (Ba)-Total		0.118	0.119		mg/L	0.5	20	26-NOV-20
Beryllium (Be)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	26-NOV-20
Bismuth (Bi)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	26-NOV-20
Boron (B)-Total		0.13	0.13		mg/L	1.0	20	26-NOV-20
Cadmium (Cd)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	26-NOV-20
Calcium (Ca)-Total		118	118		mg/L	0.4	20	26-NOV-20
Chromium (Cr)-Total		0.0051	<0.0050	RPD-NA	mg/L	N/A	20	26-NOV-20
Cesium (Cs)-Total		0.00016	0.00016		mg/L	1.4	20	26-NOV-20
Cobalt (Co)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	26-NOV-20
Copper (Cu)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	26-NOV-20
Iron (Fe)-Total		0.19	0.17		mg/L	7.4	20	26-NOV-20
Lead (Pb)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	26-NOV-20
Lithium (Li)-Total		0.067	0.066		mg/L	1.5	20	26-NOV-20
Magnesium (Mg)-Total		17.6	17.6		mg/L	0.1	20	26-NOV-20
Manganese (Mn)-Total		0.0082	0.0081		mg/L	1.1	20	26-NOV-20
Molybdenum (Mo)-Total		0.0127	0.0123		mg/L	2.7	20	26-NOV-20
Nickel (Ni)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	26-NOV-20
Phosphorus (P)-Total		<0.50	<0.50	RPD-NA	mg/L	N/A	20	26-NOV-20
Potassium (K)-Total		102	104		mg/L	1.5	20	26-NOV-20
Rubidium (Rb)-Total		0.184	0.185		mg/L	0.7	20	26-NOV-20
Selenium (Se)-Total		0.00062	0.00078	J	mg/L	0.00016	0.001	26-NOV-20
Silicon (Si)-Total		8.4	8.2		mg/L	2.1	20	26-NOV-20
Silver (Ag)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	**Water**							
Batch R5298095								
WG3451966-4 DUP		**WG3451966-3**						
Sodium (Na)-Total		109	110		mg/L	0.4	20	26-NOV-20
Strontium (Sr)-Total		1.91	1.93		mg/L	1.1	20	26-NOV-20
Sulfur (S)-Total		61.5	61.0		mg/L	0.8	25	26-NOV-20
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-NOV-20
Tellurium (Te)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	26-NOV-20
Thorium (Th)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	25	26-NOV-20
Tin (Sn)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	26-NOV-20
Titanium (Ti)-Total		0.0069	0.0061		mg/L	12	20	26-NOV-20
Tungsten (W)-Total		0.0012	0.0012		mg/L	4.5	20	26-NOV-20
Uranium (U)-Total		0.00055	0.00055		mg/L	1.2	20	26-NOV-20
Vanadium (V)-Total		0.0095	0.0093		mg/L	1.6	20	26-NOV-20
Zinc (Zn)-Total		<0.030	<0.030	RPD-NA	mg/L	N/A	20	26-NOV-20
Zirconium (Zr)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	26-NOV-20
WG3451966-2 LCS								
Aluminum (Al)-Total			111.0		%		80-120	26-NOV-20
Antimony (Sb)-Total			104.6		%		80-120	26-NOV-20
Arsenic (As)-Total			108.7		%		80-120	26-NOV-20
Barium (Ba)-Total			105.7		%		80-120	26-NOV-20
Beryllium (Be)-Total			103.9		%		80-120	26-NOV-20
Bismuth (Bi)-Total			102.3		%		80-120	26-NOV-20
Boron (B)-Total			99.4		%		80-120	26-NOV-20
Cadmium (Cd)-Total			105.9		%		80-120	26-NOV-20
Calcium (Ca)-Total			103.7		%		80-120	26-NOV-20
Chromium (Cr)-Total			107.7		%		80-120	26-NOV-20
Cesium (Cs)-Total			101.2		%		80-120	26-NOV-20
Cobalt (Co)-Total			106.6		%		80-120	26-NOV-20
Copper (Cu)-Total			105.6		%		80-120	26-NOV-20
Iron (Fe)-Total			102.7		%		80-120	26-NOV-20
Lead (Pb)-Total			102.8		%		80-120	26-NOV-20
Lithium (Li)-Total			99.5		%		80-120	26-NOV-20
Magnesium (Mg)-Total			113.6		%		80-120	26-NOV-20
Manganese (Mn)-Total			108.4		%		80-120	26-NOV-20
Molybdenum (Mo)-Total			106.2		%		80-120	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	**Water**							
Batch R5298095								
WG3451966-2 LCS								
Nickel (Ni)-Total			106.9		%		80-120	26-NOV-20
Phosphorus (P)-Total			101.2		%		70-130	26-NOV-20
Potassium (K)-Total			103.5		%		80-120	26-NOV-20
Rubidium (Rb)-Total			106.8		%		80-120	26-NOV-20
Selenium (Se)-Total			101.8		%		80-120	26-NOV-20
Silicon (Si)-Total			105.0		%		60-140	26-NOV-20
Silver (Ag)-Total			103.2		%		80-120	26-NOV-20
Sodium (Na)-Total			110.4		%		80-120	26-NOV-20
Strontium (Sr)-Total			103.1		%		80-120	26-NOV-20
Sulfur (S)-Total			105.3		%		80-120	26-NOV-20
Thallium (Tl)-Total			103.5		%		80-120	26-NOV-20
Tellurium (Te)-Total			100.2		%		80-120	26-NOV-20
Thorium (Th)-Total			100.5		%		70-130	26-NOV-20
Tin (Sn)-Total			98.5		%		80-120	26-NOV-20
Titanium (Ti)-Total			107.8		%		80-120	26-NOV-20
Tungsten (W)-Total			102.0		%		80-120	26-NOV-20
Uranium (U)-Total			103.2		%		80-120	26-NOV-20
Vanadium (V)-Total			108.2		%		80-120	26-NOV-20
Zinc (Zn)-Total			104.8		%		80-120	26-NOV-20
Zirconium (Zr)-Total			99.4		%		80-120	26-NOV-20
WG3451966-1 MB								
Aluminum (Al)-Total			<0.0050		mg/L		0.005	26-NOV-20
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Arsenic (As)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Barium (Ba)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Boron (B)-Total			<0.010		mg/L		0.01	26-NOV-20
Cadmium (Cd)-Total			<0.000005(		mg/L		0.000005	26-NOV-20
Calcium (Ca)-Total			<0.050		mg/L		0.05	26-NOV-20
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Copper (Cu)-Total			<0.00050		mg/L		0.0005	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	**Water**							
Batch R5298095								
WG3451966-1 MB								
Iron (Fe)-Total			<0.010		mg/L		0.01	26-NOV-20
Lead (Pb)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Lithium (Li)-Total			<0.0010		mg/L		0.001	26-NOV-20
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	26-NOV-20
Manganese (Mn)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Phosphorus (P)-Total			<0.050		mg/L		0.05	26-NOV-20
Potassium (K)-Total			<0.050		mg/L		0.05	26-NOV-20
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Selenium (Se)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Silicon (Si)-Total			<0.10		mg/L		0.1	26-NOV-20
Silver (Ag)-Total			<0.000050		mg/L		0.00005	26-NOV-20
Sodium (Na)-Total			<0.050		mg/L		0.05	26-NOV-20
Strontium (Sr)-Total			<0.0010		mg/L		0.001	26-NOV-20
Sulfur (S)-Total			<0.50		mg/L		0.5	26-NOV-20
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	26-NOV-20
Thorium (Th)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Tin (Sn)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	26-NOV-20
Tungsten (W)-Total			<0.00010		mg/L		0.0001	26-NOV-20
Uranium (U)-Total			<0.000010		mg/L		0.00001	26-NOV-20
Vanadium (V)-Total			<0.00050		mg/L		0.0005	26-NOV-20
Zinc (Zn)-Total			<0.0030		mg/L		0.003	26-NOV-20
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	26-NOV-20
WG3451966-5 MS		**WG3451966-3**						
Aluminum (Al)-Total			N/A	MS-B	%		-	26-NOV-20
Antimony (Sb)-Total			101.2		%		70-130	26-NOV-20
Arsenic (As)-Total			109.5		%		70-130	26-NOV-20
Barium (Ba)-Total			N/A	MS-B	%		-	26-NOV-20
Beryllium (Be)-Total			107.7		%		70-130	26-NOV-20
Bismuth (Bi)-Total			101.6		%		70-130	26-NOV-20
Boron (B)-Total			N/A	MS-B	%		-	26-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	**Water**							
Batch R5298095								
WG3451966-5 MS		**WG3451966-3**						
Cadmium (Cd)-Total			101.6		%		70-130	26-NOV-20
Calcium (Ca)-Total			N/A	MS-B	%		-	26-NOV-20
Chromium (Cr)-Total			103.1		%		70-130	26-NOV-20
Cesium (Cs)-Total			99.2		%		70-130	26-NOV-20
Cobalt (Co)-Total			105.1		%		70-130	26-NOV-20
Copper (Cu)-Total			106.0		%		70-130	26-NOV-20
Iron (Fe)-Total			N/A	MS-B	%		-	26-NOV-20
Lead (Pb)-Total			100.6		%		70-130	26-NOV-20
Lithium (Li)-Total			N/A	MS-B	%		-	26-NOV-20
Magnesium (Mg)-Total			N/A	MS-B	%		-	26-NOV-20
Manganese (Mn)-Total			104.6		%		70-130	26-NOV-20
Molybdenum (Mo)-Total			N/A	MS-B	%		-	26-NOV-20
Nickel (Ni)-Total			105.3		%		70-130	26-NOV-20
Phosphorus (P)-Total			125.5		%		70-130	26-NOV-20
Potassium (K)-Total			N/A	MS-B	%		-	26-NOV-20
Rubidium (Rb)-Total			N/A	MS-B	%		-	26-NOV-20
Selenium (Se)-Total			99.8		%		70-130	26-NOV-20
Silicon (Si)-Total			N/A	MS-B	%		-	26-NOV-20
Silver (Ag)-Total			98.9		%		70-130	26-NOV-20
Sodium (Na)-Total			N/A	MS-B	%		-	26-NOV-20
Strontium (Sr)-Total			N/A	MS-B	%		-	26-NOV-20
Sulfur (S)-Total			N/A	MS-B	%		-	26-NOV-20
Thallium (Tl)-Total			102.5		%		70-130	26-NOV-20
Tellurium (Te)-Total			102.6		%		70-130	26-NOV-20
Thorium (Th)-Total			94.6		%		70-130	26-NOV-20
Tin (Sn)-Total			97.4		%		70-130	26-NOV-20
Titanium (Ti)-Total			107.9		%		70-130	26-NOV-20
Tungsten (W)-Total			102.2		%		70-130	26-NOV-20
Uranium (U)-Total			N/A	MS-B	%		-	26-NOV-20
Vanadium (V)-Total			105.5		%		70-130	26-NOV-20
Zinc (Zn)-Total			104.4		%		70-130	26-NOV-20
Zirconium (Zr)-Total			92.0		%		70-130	26-NOV-20
OGG-SPEC-WT	**Water**							

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OGG-SPEC-WT	**Water**							
Batch R5298859								
WG3451948-2 LCS								
Oil and Grease, Total			94.9		%		70-130	26-NOV-20
Mineral Oil and Grease			90.2		%		70-130	26-NOV-20
WG3451948-1 MB								
Oil and Grease, Total			<5.0		mg/L		5	26-NOV-20
Mineral Oil and Grease			<2.5		mg/L		2.5	26-NOV-20
PAH-511-WT	**Water**							
Batch R5298949								
WG3451674-2 LCS								
1-Methylnaphthalene			89.0		%		50-140	27-NOV-20
2-Methylnaphthalene			82.6		%		50-140	27-NOV-20
Acenaphthene			89.4		%		50-140	27-NOV-20
Acenaphthylene			88.7		%		50-140	27-NOV-20
Anthracene			94.7		%		50-140	27-NOV-20
Benzo(a)anthracene			101.1		%		50-140	27-NOV-20
Benzo(a)pyrene			89.0		%		50-140	27-NOV-20
Benzo(b)fluoranthene			88.2		%		50-140	27-NOV-20
Benzo(g,h,i)perylene			88.8		%		50-140	27-NOV-20
Benzo(k)fluoranthene			87.8		%		50-140	27-NOV-20
Chrysene			107.1		%		50-140	27-NOV-20
Dibenzo(ah)anthracene			90.1		%		50-140	27-NOV-20
Fluoranthene			95.0		%		50-140	27-NOV-20
Fluorene			93.4		%		50-140	27-NOV-20
Indeno(1,2,3-cd)pyrene			103.8		%		50-140	27-NOV-20
Naphthalene			80.2		%		50-140	27-NOV-20
Phenanthrene			99.8		%		50-140	27-NOV-20
Pyrene			97.0		%		50-140	27-NOV-20
WG3451674-1 MB								
1-Methylnaphthalene			<0.020		ug/L		0.02	27-NOV-20
2-Methylnaphthalene			<0.020		ug/L		0.02	27-NOV-20
Acenaphthene			<0.020		ug/L		0.02	27-NOV-20
Acenaphthylene			<0.020		ug/L		0.02	27-NOV-20
Anthracene			<0.020		ug/L		0.02	27-NOV-20
Benzo(a)anthracene			<0.020		ug/L		0.02	27-NOV-20
Benzo(a)pyrene			<0.010		ug/L		0.01	27-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Water**							
Batch R5298949								
WG3451674-1 MB								
Benzo(b)fluoranthene			<0.020		ug/L		0.02	27-NOV-20
Benzo(g,h,i)perylene			<0.020		ug/L		0.02	27-NOV-20
Benzo(k)fluoranthene			<0.020		ug/L		0.02	27-NOV-20
Chrysene			<0.020		ug/L		0.02	27-NOV-20
Dibenzo(ah)anthracene			<0.020		ug/L		0.02	27-NOV-20
Fluoranthene			<0.020		ug/L		0.02	27-NOV-20
Fluorene			<0.020		ug/L		0.02	27-NOV-20
Indeno(1,2,3-cd)pyrene			<0.020		ug/L		0.02	27-NOV-20
Naphthalene			<0.050		ug/L		0.05	27-NOV-20
Phenanthrene			<0.020		ug/L		0.02	27-NOV-20
Pyrene			<0.020		ug/L		0.02	27-NOV-20
Surrogate: d8-Naphthalene			86.5		%		60-140	27-NOV-20
Surrogate: d10-Phenanthrene			96.0		%		60-140	27-NOV-20
Surrogate: d12-Chrysene			93.2		%		60-140	27-NOV-20
Surrogate: d10-Acenaphthene			88.5		%		60-140	27-NOV-20
PH-WT	**Water**							
Batch R5298244								
WG3452155-4 DUP		**WG3452155-3**						
pH		7.80	7.76	J	pH units	0.04	0.2	26-NOV-20
WG3452155-2 LCS								
pH			7.05		pH units		6.9-7.1	26-NOV-20
Batch R5299316								
WG3452156-4 DUP		**WG3452156-3**						
pH		8.28	8.26	J	pH units	0.02	0.2	26-NOV-20
WG3452156-2 LCS								
pH			7.01		pH units		6.9-7.1	26-NOV-20
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-4 DUP		**WG3453379-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-4 DUP		**WG3453379-3**						
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,2-Dibromoethane		<0.20	<0.20	RPD-NA	ug/L	N/A	30	30-NOV-20
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Acetone		<30	<30	RPD-NA	ug/L	N/A	30	30-NOV-20
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Bromodichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-20
Bromoform		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-20
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Carbon tetrachloride		<0.20	<0.20	RPD-NA	ug/L	N/A	30	30-NOV-20
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	30-NOV-20
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-20
Dibromochloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-20
Dichlorodifluoromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-20
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	30-NOV-20
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	30-NOV-20
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	30-NOV-20
Methylene Chloride		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-20
MTBE		<2.0	<2.0	RPD-NA	ug/L	N/A	30	30-NOV-20
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-20
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
trans-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	30-NOV-20
Trichloroethylene		<0.50	<0.50		ug/L			30-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-4 DUP		**WG3453379-3**						
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
Trichlorofluoromethane		<5.0	<5.0	RPD-NA	ug/L	N/A	30	30-NOV-20
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	30-NOV-20
WG3453379-1 LCS								
1,1,1,2-Tetrachloroethane			89.1		%		70-130	30-NOV-20
1,1,2,2-Tetrachloroethane			74.2		%		70-130	30-NOV-20
1,1,1-Trichloroethane			100.5		%		70-130	30-NOV-20
1,1,2-Trichloroethane			83.8		%		70-130	30-NOV-20
1,1-Dichloroethane			90.6		%		70-130	30-NOV-20
1,1-Dichloroethylene			100.8		%		70-130	30-NOV-20
1,2-Dibromoethane			82.0		%		70-130	30-NOV-20
1,2-Dichlorobenzene			97.6		%		70-130	30-NOV-20
1,2-Dichloroethane			88.0		%		70-130	30-NOV-20
1,2-Dichloropropane			86.1		%		70-130	30-NOV-20
1,3-Dichlorobenzene			106.1		%		70-130	30-NOV-20
1,4-Dichlorobenzene			104.9		%		70-130	30-NOV-20
Acetone			86.0		%		60-140	30-NOV-20
Benzene			89.9		%		70-130	30-NOV-20
Bromodichloromethane			96.9		%		70-130	30-NOV-20
Bromoform			90.3		%		70-130	30-NOV-20
Bromomethane			83.2		%		60-140	30-NOV-20
Carbon tetrachloride			106.5		%		70-130	30-NOV-20
Chlorobenzene			93.9		%		70-130	30-NOV-20
Chloroform			94.9		%		70-130	30-NOV-20
cis-1,2-Dichloroethylene			90.5		%		70-130	30-NOV-20
cis-1,3-Dichloropropene			91.5		%		70-130	30-NOV-20
Dibromochloromethane			86.5		%		70-130	30-NOV-20
Dichlorodifluoromethane			71.6		%		50-140	30-NOV-20
Ethylbenzene			100.0		%		70-130	30-NOV-20
n-Hexane			97.9		%		70-130	30-NOV-20
m+p-Xylenes			100.9		%		70-130	30-NOV-20
Methyl Ethyl Ketone			63.0		%		60-140	30-NOV-20
Methyl Isobutyl Ketone			75.9		%		60-140	30-NOV-20
Methylene Chloride			90.0				70-130	

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-1 LCS								
Methylene Chloride			90.0		%		70-130	30-NOV-20
MTBE			97.4		%		70-130	30-NOV-20
o-Xylene			104.5		%		70-130	30-NOV-20
Styrene			91.0		%		70-130	30-NOV-20
Tetrachloroethylene			105.4		%		70-130	30-NOV-20
Toluene			97.4		%		70-130	30-NOV-20
trans-1,2-Dichloroethylene			101.9		%		70-130	30-NOV-20
trans-1,3-Dichloropropene			92.4		%		70-130	30-NOV-20
Trichloroethylene			100.7		%		70-130	30-NOV-20
Trichlorofluoromethane			99.5		%		60-140	30-NOV-20
Vinyl chloride			89.3		%		60-140	30-NOV-20
WG3453379-2 MB								
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	30-NOV-20
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	30-NOV-20
1,1,1-Trichloroethane			<0.50		ug/L		0.5	30-NOV-20
1,1,2-Trichloroethane			<0.50		ug/L		0.5	30-NOV-20
1,1-Dichloroethane			<0.50		ug/L		0.5	30-NOV-20
1,1-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-20
1,2-Dibromoethane			<0.20		ug/L		0.2	30-NOV-20
1,2-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-20
1,2-Dichloroethane			<0.50		ug/L		0.5	30-NOV-20
1,2-Dichloropropane			<0.50		ug/L		0.5	30-NOV-20
1,3-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-20
1,4-Dichlorobenzene			<0.50		ug/L		0.5	30-NOV-20
Acetone			<30		ug/L		30	30-NOV-20
Benzene			<0.50		ug/L		0.5	30-NOV-20
Bromodichloromethane			<2.0		ug/L		2	30-NOV-20
Bromoform			<5.0		ug/L		5	30-NOV-20
Bromomethane			<0.50		ug/L		0.5	30-NOV-20
Carbon tetrachloride			<0.20		ug/L		0.2	30-NOV-20
Chlorobenzene			<0.50		ug/L		0.5	30-NOV-20
Chloroform			<1.0		ug/L		1	30-NOV-20
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-20
cis-1,3-Dichloropropene			<0.30		ug/L		0.3	30-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-2 MB								
Dibromochloromethane			<2.0		ug/L		2	30-NOV-20
Dichlorodifluoromethane			<2.0		ug/L		2	30-NOV-20
Ethylbenzene			<0.50		ug/L		0.5	30-NOV-20
n-Hexane			<0.50		ug/L		0.5	30-NOV-20
m+p-Xylenes			<0.40		ug/L		0.4	30-NOV-20
Methyl Ethyl Ketone			<20		ug/L		20	30-NOV-20
Methyl Isobutyl Ketone			<20		ug/L		20	30-NOV-20
Methylene Chloride			<5.0		ug/L		5	30-NOV-20
MTBE			<2.0		ug/L		2	30-NOV-20
o-Xylene			<0.30		ug/L		0.3	30-NOV-20
Styrene			<0.50		ug/L		0.5	30-NOV-20
Tetrachloroethylene			<0.50		ug/L		0.5	30-NOV-20
Toluene			<0.50		ug/L		0.5	30-NOV-20
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	30-NOV-20
trans-1,3-Dichloropropene			<0.30		ug/L		0.3	30-NOV-20
Trichloroethylene			<0.50		ug/L		0.5	30-NOV-20
Trichlorofluoromethane			<5.0		ug/L		5	30-NOV-20
Vinyl chloride			<0.50		ug/L		0.5	30-NOV-20
Surrogate: 1,4-Difluorobenzene			101.1		%		70-130	30-NOV-20
Surrogate: 4-Bromofluorobenzene			100.4		%		70-130	30-NOV-20
WG3453379-5 MS		**WG3453379-3**						
1,1,1,2-Tetrachloroethane			90.2		%		50-140	30-NOV-20
1,1,2,2-Tetrachloroethane			83.2		%		50-140	30-NOV-20
1,1,1-Trichloroethane			96.2		%		50-140	30-NOV-20
1,1,2-Trichloroethane			89.5		%		50-140	30-NOV-20
1,1-Dichloroethane			91.7		%		50-140	30-NOV-20
1,1-Dichloroethylene			95.8		%		50-140	30-NOV-20
1,2-Dibromoethane			88.0		%		50-140	30-NOV-20
1,2-Dichlorobenzene			97.5		%		50-140	30-NOV-20
1,2-Dichloroethane			96.3		%		50-140	30-NOV-20
1,2-Dichloropropane			91.1		%		50-140	30-NOV-20
1,3-Dichlorobenzene			102.1		%		50-140	30-NOV-20
1,4-Dichlorobenzene			101.8		%		50-140	30-NOV-20
Acetone			101.0		%		50-140	30-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2

Contact: Laura Ermeta

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Water**							
Batch R5299578								
WG3453379-5 MS		**WG3453379-3**						
Benzene			91.0		%		50-140	30-NOV-20
Bromodichloromethane			102.1		%		50-140	30-NOV-20
Bromoform			96.9		%		50-140	30-NOV-20
Bromomethane			78.5		%		50-140	30-NOV-20
Carbon tetrachloride			101.9		%		50-140	30-NOV-20
Chlorobenzene			93.3		%		50-140	30-NOV-20
Chloroform			96.9		%		50-140	30-NOV-20
cis-1,2-Dichloroethylene			91.7		%		50-140	30-NOV-20
cis-1,3-Dichloropropene			92.8		%		50-140	30-NOV-20
Dibromochloromethane			89.8		%		50-140	30-NOV-20
Dichlorodifluoromethane			59.9		%		50-140	30-NOV-20
Ethylbenzene			95.7		%		50-140	30-NOV-20
n-Hexane			90.2		%		50-140	30-NOV-20
m+p-Xylenes			96.5		%		50-140	30-NOV-20
Methyl Ethyl Ketone			78.1		%		50-140	30-NOV-20
Methyl Isobutyl Ketone			90.8		%		50-140	30-NOV-20
Methylene Chloride			92.3		%		50-140	30-NOV-20
MTBE			97.6		%		50-140	30-NOV-20
o-Xylene			102.6		%		50-140	30-NOV-20
Styrene			90.6		%		50-140	30-NOV-20
Tetrachloroethylene			96.3		%		50-140	30-NOV-20
Toluene			94.6		%		50-140	30-NOV-20
trans-1,2-Dichloroethylene			97.8		%		50-140	30-NOV-20
trans-1,3-Dichloropropene			91.3		%		50-140	30-NOV-20
Trichloroethylene			97.2		%		50-140	30-NOV-20
Trichlorofluoromethane			91.6		%		50-140	30-NOV-20
Vinyl chloride			81.3		%		50-140	30-NOV-20

Quality Control Report

Workorder: L2533335 Report Date: 30-NOV-20

Client: GHD Limited (Waterloo)
455 PHILLIP STREET
WATERLOO ON N2L 3X2
Contact: Laura Ermeta

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

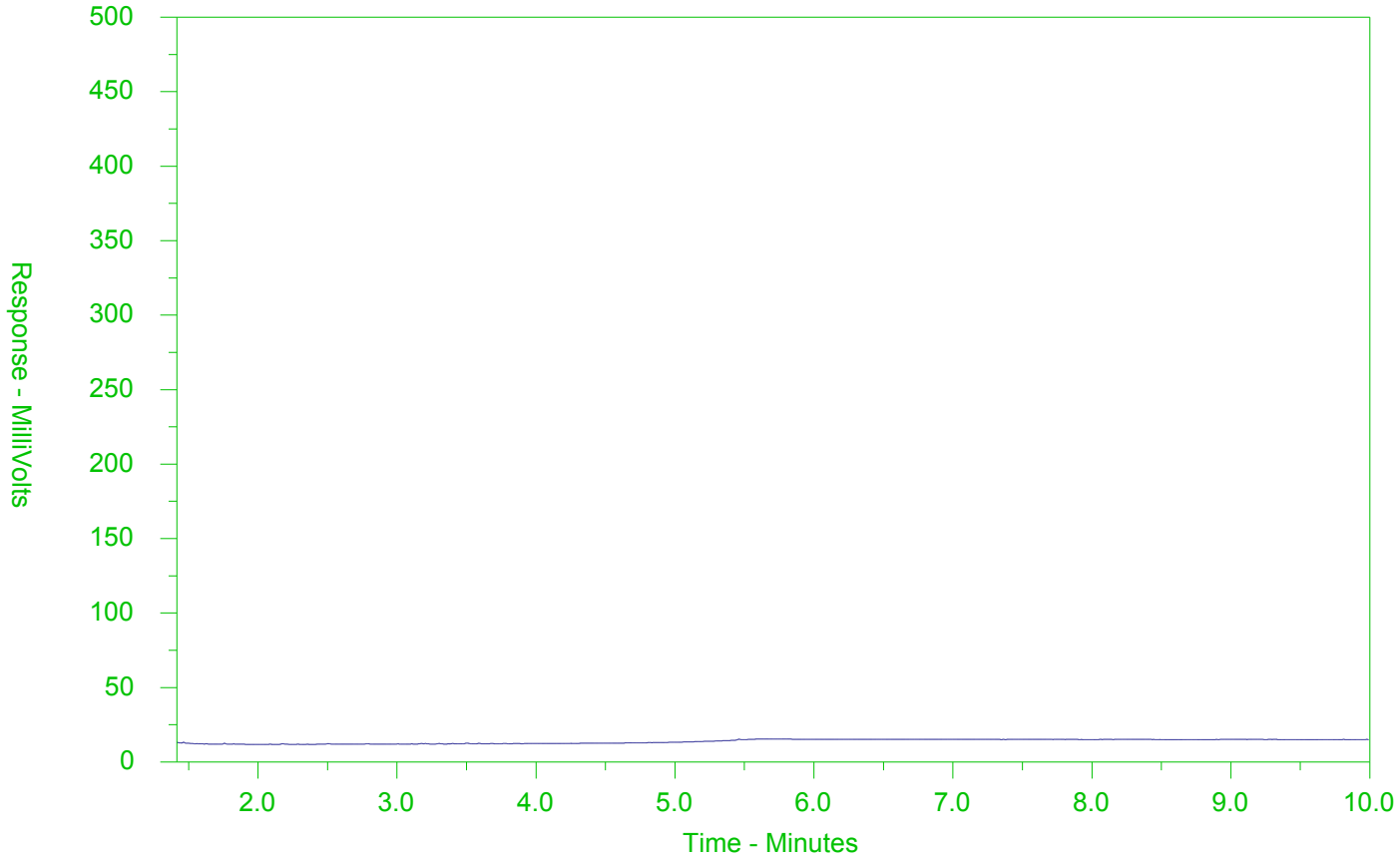
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2533335-1
Client Sample ID: GW-11210029-112420-MW-2



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

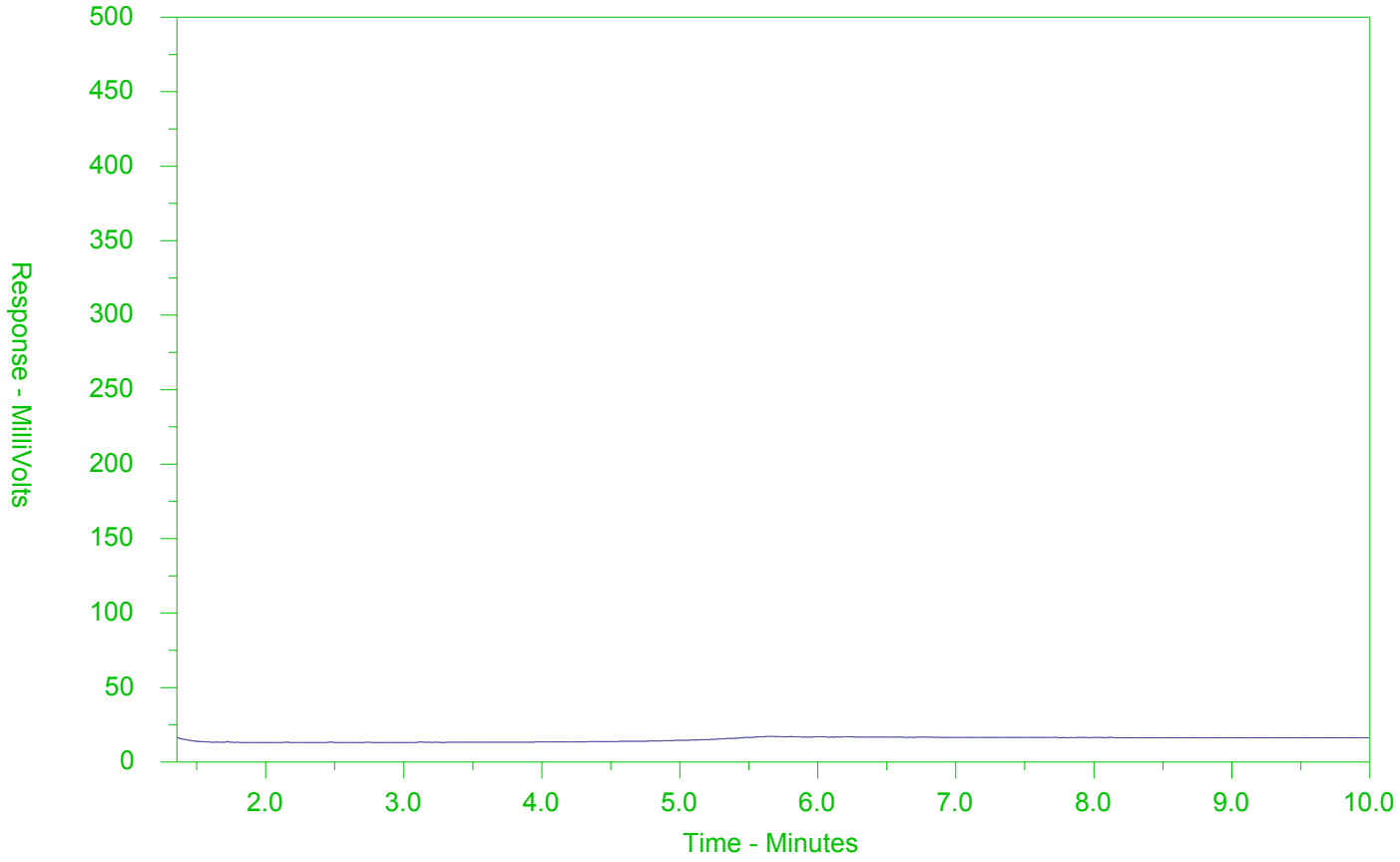
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2533335-2
Client Sample ID: GW-11210029-112420-MW-2D



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

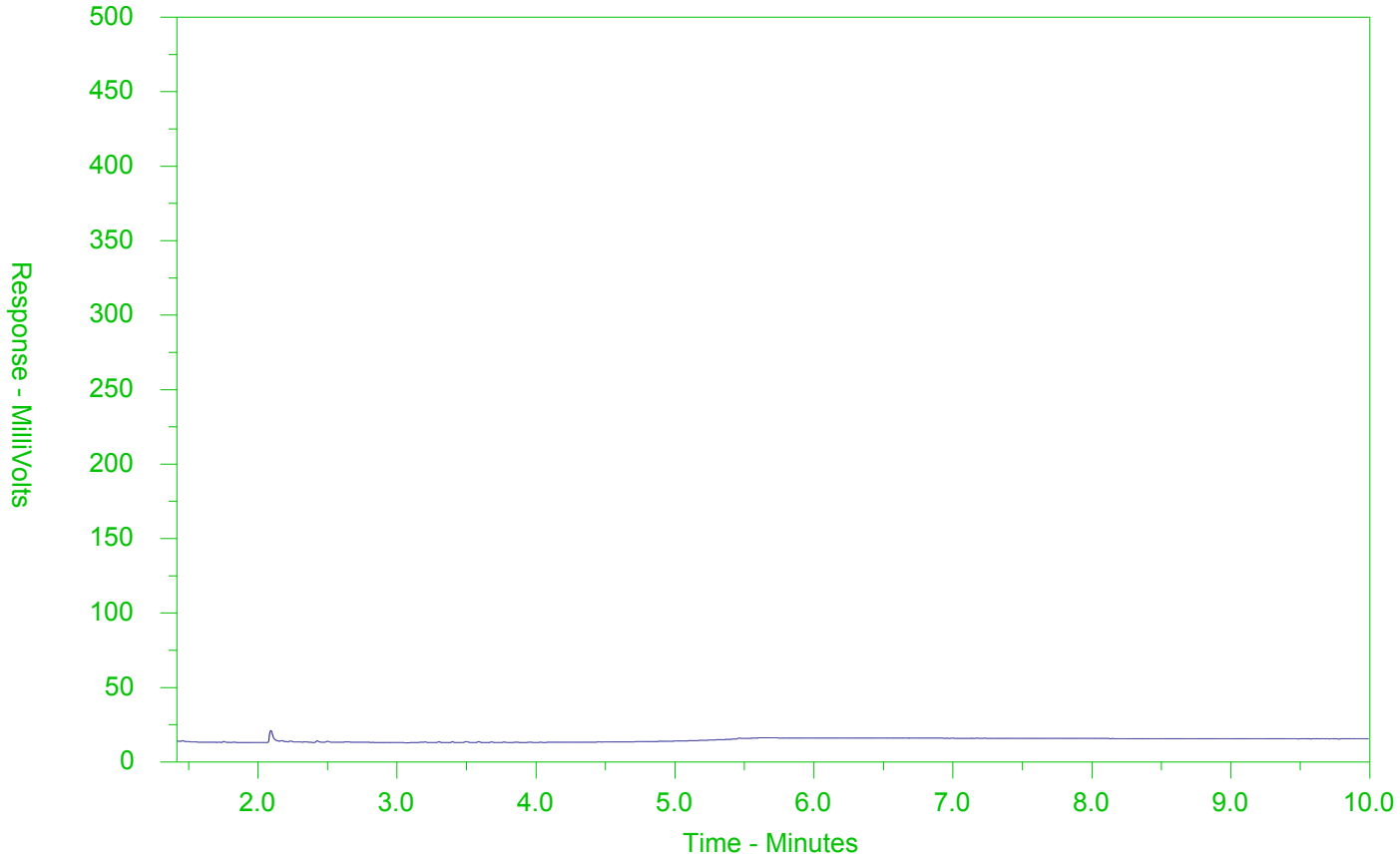
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2533335-3
Client Sample ID: GW-11210029-112420-MW-3



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

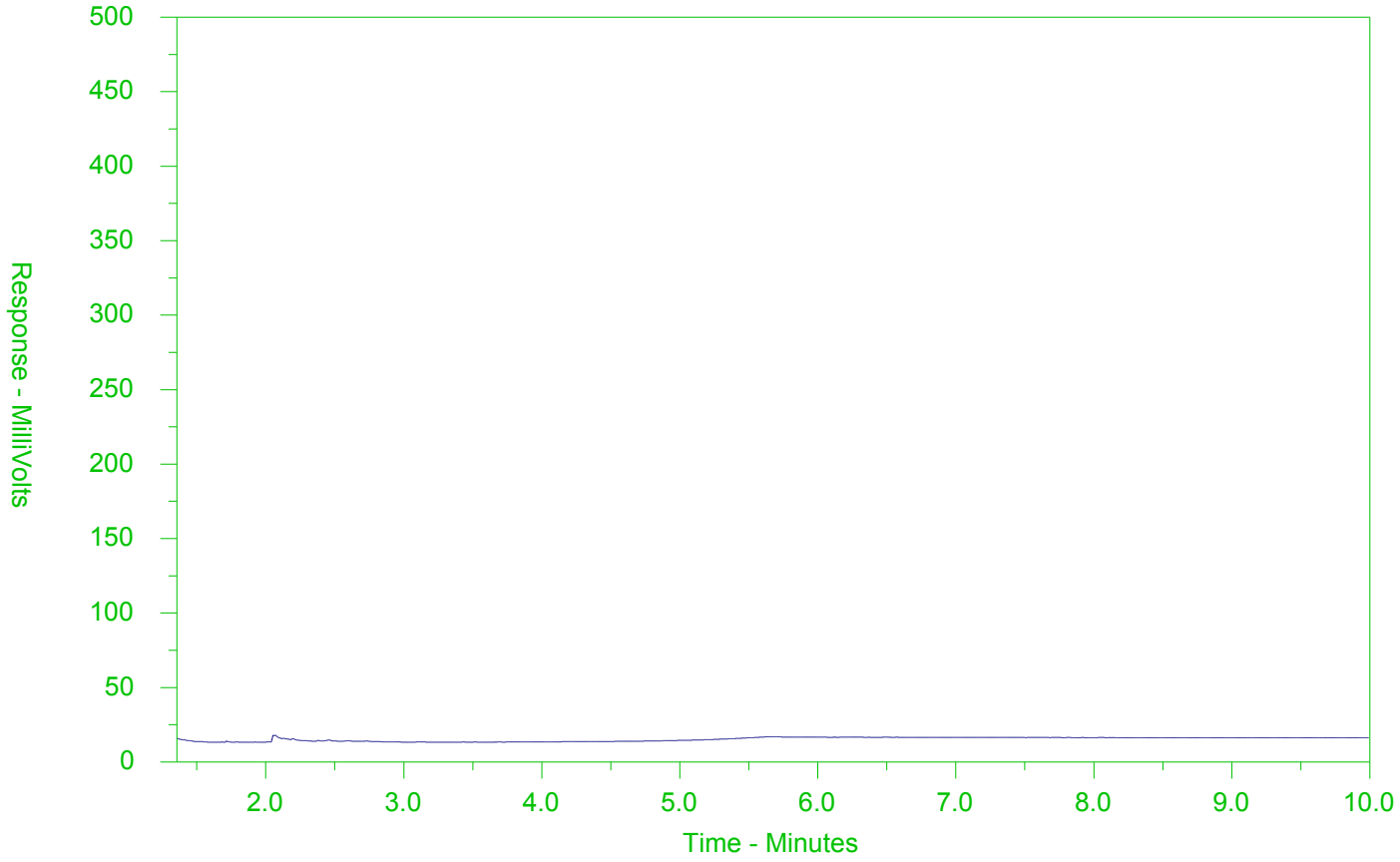
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2533335-4
Client Sample ID: GW-11210029-112520-MW-1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

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Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

ALS Environmental

www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2533335-COFC

COC Number: 17 - 871527

Page of

Report To	Contact and company name below will appear on the final report
Company:	GHD
Contact:	Jon Balkwill
Phone:	
Company address below will appear on the final report	
Street:	455 Philip St
City/Province:	Waterloo ON
Postal Code:	
Invoice To	Same as Report To [X] YES [ ] NO
	Copy of Invoice with Report [ ] YES [ ] NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: [X] PDF [X] EXCEL [ ] EDD (DIGITAL)

Quality Control (QC) Report with Report [ ] YES [ ] NO

[ ] Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: [ ] EMAIL [ ] MAIL [ ] FAX

Email 1 or Fax: Jennifer.Balkwill@ghd.com

Email 2: Gary.Lagos@ghd.com

Email 3: Amalia.Solata@ghd.com

Invoice Distribution

Select Invoice Distribution: [ ] EMAIL [ ] MAIL [ ] FAX

Email 1 or Fax

Email 2

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] [X] Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] [ ]; 3 day [P3-25%] [ ]; 2 day [P2-50%] [ ]

EMERGENCY: 1 Business day [E - 100%] [ ]; Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] [ ]

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #: 13791

Job #: 11210029 - 02 - WATER

PO / AFE:

LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#

Major/Minor Code: Routing Code:

Requisitioner:

Location:

ALS Contact: Sampler:

ALS Lab Work Order # (lab use only): L2533335 MM

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	VOC (P)	Total Metals (P)	Dissolved Metals (F/P)	Total Hg (P)	Dissolved Hg (F/P)	Dissolved Cr6 (F/P)	CN (P)	SVOC	PAH F2-F4 (P)	EC, pH, CL	Oil & Grease (P)	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
	GW-11210029-112420-MW-2	24-Nov-20	11:25	GW	15	x												
	-2D	"	11:30		15	x												
	-3	"	13:45		15	x												
	-1	25-Nov-20	11:20		15	x												
	Trip Blank	"	12:00		2	x												

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? [ ] YES [X] NO

Are samples for human consumption/ use? [ ] YES [X] NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen [ ] SIF Observations Yes [ ] No [ ]

Ice Packs [ ] Ice Cubes [X] Custody seal intact Yes [ ] No [ ]

Cooling Initiated [ ]

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				2.9	3.3		

SHIPMENT RELEASE (client use)

Released by: [redacted] Date: 11-25-2020 Time: 1255

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: [redacted] Date: Nov 25/20 Time: 1300

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 FRONT

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2311183**	Page	: 1 of 40
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 28-Apr-2023 17:00
PO	: 73522487	Date Analysis Commenced	: 01-May-2023
C-O-C number	: ----	Issue Date	: 08-May-2023 22:45
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*
RRV	*Reported result verified by repeat analysis.*

Analytical Results

WT2311183-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AppWell
Client sampling date / time: 28-Apr-2023 09:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.28	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00609	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.0745	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.012	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	48.3	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	0.216	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	0.0032	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	27.8	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.00743	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	01-May-2023	01-May-2023	917216
Molybdenum, dissolved	7439-98-7	0.000690	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	1.01	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00031	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	0.000240	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	7.65	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	6.12	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.304	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	7.79	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000597	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0011	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	01-May-2023	917216
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829

Analytical Results

WT2311183-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AppWell
Client sampling date / time: 28-Apr-2023 09:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AppWell
Client sampling date / time: 28-Apr-2023 09:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
BTEX, total	----	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	04-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	04-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F1-BTEX	----	<25	25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	04-May-2023	916857
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.1	1.0	%	E601.SG	01-May-2023	04-May-2023	916857
Dichlorotoluene, 3,4-	95-75-0	104	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.5	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	99.4	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	04-May-2023	916856
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	04-May-2023	916856
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A	01-May-2023	04-May-2023	916856
Naphthalene-d8	1146-65-2	99.1	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phenanthrene-d10	1517-22-2	102	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	05-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	05-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	05-May-2023	921266
Semi-Volatile Organics								

Analytical Results

WT2311183-001

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: AppWell

Client sampling date / time: 28-Apr-2023 09:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	05-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	05-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	83.4	1.0	%	E655A	03-May-2023	05-May-2023	921266
Nitrobenzene-d5	4165-60-0	88.1	1.0	%	E655A	03-May-2023	05-May-2023	921266
Terphenyl-d14, p-	1718-51-0	103	1.0	%	E655A	03-May-2023	05-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	05-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	05-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	05-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	05-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	05-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	05-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	05-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	05-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	85.1	0.20	%	E655A	03-May-2023	05-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 28-Apr-2023 09:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	41.2	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.289	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00037	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.108	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Apr-2023 09:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Boron, dissolved	7440-42-8	0.026	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.0000651	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	151	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	0.000015	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	0.00080	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	0.00029	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00187	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	0.268	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	0.00116	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	0.0022	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	41.5	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.0381	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	0.000429	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	0.00087	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	0.054	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	11.9	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00066	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	0.000403	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	5.79	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	23.9	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.190	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	18.3	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	0.000015	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	0.00017	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	0.0107	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000539	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	0.00083	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0142	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	0.00050	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Apr-2023 09:50

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Carbon tetrachloride	56-23-5	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	04-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	04-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-

Analytical Results

WT2311183-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Apr-2023 09:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	04-May-2023	916857
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	82.0	1.0	%	E601.SG	01-May-2023	04-May-2023	916857
Dichlorotoluene, 3,4-	95-75-0	82.1	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	90.9	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	99.1	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(b+j)fluoranthene	n/a	0.012	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(g,h,i)perylene	191-24-2	0.072	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Indeno(1,2,3-c,d)pyrene	193-39-5	0.062	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1-	90-12-0	0.017	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1+2-	----	0.039	0.015	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 2-	91-57-6	0.022	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	04-May-2023	916856
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	04-May-2023	916856
Pyrene	129-00-0	0.018	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	98.8	0.1	%	E641A	01-May-2023	04-May-2023	916856
Naphthalene-d8	1146-65-2	104	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266

Analytical Results

WT2311183-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Apr-2023 09:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	93.3	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	95.6	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	96.5	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	97.1	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	19.4 DLDS,	2.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0110 DLHC,	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00100 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00110 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.127 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000200 DLHC,	0.000200	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.151 DLHC,	0.100	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.000192 DLHC,	0.0000500	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	123 DLHC,	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000100 DLHC,	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00500 DLHC,	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00100 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.0264 DLHC,	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.100 DLHC,	0.100	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	<0.0100 DLHC,	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals									
Magnesium, dissolved	7439-95-4	48.1	DLHC.	0.0500	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.144	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	<0.000500	DLHC.	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	0.00892	DLHC.	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.500	DLHC.	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	109	DLHC.	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.0209	DLHC.	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	<0.000500	DLHC.	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	4.69	DLHC.	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000100	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	13.8	DLHC.	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.175	DLHC.	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	10.8	DLHC.	5.00	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00200	DLHC.	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	0.000122	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00300	DLHC.	0.00300	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000706	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00500	DLHC.	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0473	DLHC.	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00300	DLHC.	0.00300	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field		-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field		-	-	EP421	-	01-May-2023	916829
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	04-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	04-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG	01-May-2023	04-May-2023	916857
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.6		1.0	%	E601.SG	01-May-2023	04-May-2023	916857
Dichlorotoluene, 3,4-	95-75-0	82.1		1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	91.1		1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	99.4		1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856

Analytical Results

WT2311183-003

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW2-20

Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(g,h,i)perylene	191-24-2	0.019	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Indeno(1,2,3-c,d)pyrene	193-39-5	0.014	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	04-May-2023	916856
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	04-May-2023	916856
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	101	0.1	%	E641A	01-May-2023	04-May-2023	916856
Naphthalene-d8	1146-65-2	98.2	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phenanthrene-d10	1517-22-2	99.6	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	82.4	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	89.0	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	100	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266

Analytical Results

WT2311183-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	92.6	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: Dup
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	19.3 DLDS,	2.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0106 DLHC,	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00100 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00107 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.136 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000200 DLHC,	0.000200	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.153 DLHC,	0.100	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.000187 DLHC,	0.0000500	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	130 DLHC,	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000100 DLHC,	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00500 DLHC,	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00100 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.0277 DLHC,	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.100 DLHC,	0.100	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	<0.0100 DLHC,	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	47.8 DLHC,	0.0500	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.152 DLHC,	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	0.00920 DLHC,	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.500 DLHC,	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	111 DLHC,	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.0210 DLHC,	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	<0.000500 DLHC,	0.000500	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	4.91 DLHC,	0.500	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: Dup
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals									
Silver, dissolved	7440-22-4	<0.000100	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	14.0	DLHC.	0.500	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.183	DLHC.	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	11.2	DLHC.	5.00	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00200	DLHC.	0.00200	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	0.000131	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00300	DLHC.	0.00300	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00100	DLHC.	0.00100	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000744	DLHC.	0.000100	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00500	DLHC.	0.00500	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0486	DLHC.	0.0100	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00300	DLHC.	0.00300	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field		-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field		-	-	EP421	-	01-May-2023	916829
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: Dup
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Hexane, n-	110-54-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	04-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	04-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG	01-May-2023	04-May-2023	916857
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.3		1.0	%	E601.SG	01-May-2023	04-May-2023	916857
Dichlorotoluene, 3,4-	95-75-0	83.8		1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	90.7		1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	98.9		1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Acenaphthylene	208-96-8	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Anthracene	120-12-7	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benz(a)anthracene	56-55-3	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(a)pyrene	50-32-8	<0.0050		0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(b+j)fluoranthene	n/a	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(g,h,i)perylene	191-24-2	0.011		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(k)fluoranthene	207-08-9	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Chrysene	218-01-9	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Dibenz(a,h)anthracene	53-70-3	<0.0050		0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluoranthene	206-44-0	<0.010		0.010	µg/L	E641A	01-May-2023	04-May-2023	916856

Analytical Results

WT2311183-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: Dup
Client sampling date / time: 28-Apr-2023 10:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1-	90-12-0	0.023	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1+2-	----	0.053	0.015	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 2-	91-57-6	0.030	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	04-May-2023	916856
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	04-May-2023	916856
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	101	0.1	%	E641A	01-May-2023	04-May-2023	916856
Naphthalene-d8	1146-65-2	104	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phenanthrene-d10	1517-22-2	106	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	88.0	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	93.9	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	98.8	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	96.1	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AgWell
Client sampling date / time: 28-Apr-2023 11:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	17.9	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00534	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.0541	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	70.2	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00204	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	0.499	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	0.0042	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	36.7	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.0116	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	0.000498	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	1.06	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00022	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	9.63	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	7.49	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.138	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	17.0	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000193	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0090	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829

Analytical Results

WT2311183-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AgWell
Client sampling date / time: 28-Apr-2023 11:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AgWell
Client sampling date / time: 28-Apr-2023 11:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
BTEX, total	----	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	04-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	04-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-May-2023	04-May-2023	916857
F1-BTEX	----	<25	25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	04-May-2023	916857
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	77.1	1.0	%	E601.SG	01-May-2023	04-May-2023	916857
Dichlorotoluene, 3,4-	95-75-0	101	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	90.8	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	99.0	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	01-May-2023	04-May-2023	916856
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	04-May-2023	916856
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	04-May-2023	916856
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	04-May-2023	916856
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A	01-May-2023	04-May-2023	916856
Naphthalene-d8	1146-65-2	96.5	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phenanthrene-d10	1517-22-2	99.5	0.1	%	E641A	01-May-2023	04-May-2023	916856
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								

Analytical Results

WT2311183-005

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: AgWell

Client sampling date / time: 28-Apr-2023 11:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.7	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	93.8	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	96.8	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	92.6	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-006

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW3-20

Client sampling date / time: 28-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	6.64	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0016	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00022	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.0496	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 28-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Boron, dissolved	7440-42-8	0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	106	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00045	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	0.0030	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	45.5	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.00883	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	0.000320	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	1.04	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00055	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	0.000058	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	7.31	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	4.75	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.143	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	6.10	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000824	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	0.00051	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 28-Apr-2023 12:25

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Carbon tetrachloride	56-23-5	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	03-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	03-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-

Analytical Results

WT2311183-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 28-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	03-May-2023	916864
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.1	1.0	%	E601.SG	01-May-2023	03-May-2023	916864
Dichlorotoluene, 3,4-	95-75-0	65.5	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	89.9	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	98.7	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benz(a)anthracene	56-55-3	<0.045 DLM,	0.045	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(a)pyrene	50-32-8	<0.0175 DLM,	0.0175	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(b+j)fluoranthene	n/a	0.219	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(g,h,i)perylene	191-24-2	0.121	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(k)fluoranthene	207-08-9	0.075	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Chrysene	218-01-9	<0.168 DLM,	0.168	µg/L	E641A	01-May-2023	03-May-2023	916865
Dibenz(a,h)anthracene	53-70-3	0.0080	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluoranthene	206-44-0	0.053	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Indeno(1,2,3-c,d)pyrene	193-39-5	0.152	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1-	90-12-0	0.035	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1+2-	----	0.077	0.015	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 2-	91-57-6	0.042	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	03-May-2023	916865
Phenanthrene	85-01-8	0.030	0.020	µg/L	E641A	01-May-2023	03-May-2023	916865
Pyrene	129-00-0	0.131	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	93.6	0.1	%	E641A	01-May-2023	03-May-2023	916865
Naphthalene-d8	1146-65-2	103	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266

Analytical Results

WT2311183-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 28-Apr-2023 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.8	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	91.8	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	93.7	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	89.4	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH-213
Client sampling date / time: 28-Apr-2023 13:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	8.58	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0018	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00042	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.0284	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.014	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.0000240	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	60.2	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	0.00117	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00098	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	0.000088	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-007

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH-213

Client sampling date / time: 28-Apr-2023 13:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Magnesium, dissolved	7439-95-4	20.8	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.644	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	0.000989	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	0.00282	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	2.74	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00104	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	3.34	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	3.06	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.0913	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	1.35	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	0.000062	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000242	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0096	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20 OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20 OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-213
Client sampling date / time: 28-Apr-2023 13:15

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	03-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	03-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG	01-May-2023	03-May-2023	916864
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	82.8		1.0	%	E601.SG	01-May-2023	03-May-2023	916864
Dichlorotoluene, 3,4-	95-75-0	92.5		1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	90.2		1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	98.8		1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865

Analytical Results

WT2311183-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-213
Client sampling date / time: 28-Apr-2023 13:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	03-May-2023	916865
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	03-May-2023	916865
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	92.8	0.1	%	E641A	01-May-2023	03-May-2023	916865
Naphthalene-d8	1146-65-2	99.6	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phenanthrene-d10	1517-22-2	99.3	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	88.1	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	95.2	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	102	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266

Analytical Results

WT2311183-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH-213
Client sampling date / time: 28-Apr-2023 13:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	95.2	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-008

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH-219
Client sampling date / time: 28-Apr-2023 01:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.58	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0012	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00012	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.190	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.016	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.0000387	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	127	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00071	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	0.000074	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	0.0030	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	50.8	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.00091	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	0.000215	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	1.64	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00125	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	0.000382	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	7.72	0.050	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-008

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH-219

Client sampling date / time: 28-Apr-2023 01:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	4.26	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.163	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	13.5	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000990	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0214	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20 OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20 OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0 OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50 OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-219
Client sampling date / time: 28-Apr-2023 01:05

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Hexane, n-	110-54-3	0.59	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0		1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100		100	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F2-Naphthalene	----	<100		100	µg/L	EC600SG	-	03-May-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F3-PAH	n/a	<250		250	µg/L	EC600SG	-	03-May-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F1-BTEX	----	<25		25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG	01-May-2023	03-May-2023	916864
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	81.1		1.0	%	E601.SG	01-May-2023	03-May-2023	916864
Dichlorotoluene, 3,4-	95-75-0	88.3		1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	90.0		1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	98.7		1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Acenaphthylene	208-96-8	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Anthracene	120-12-7	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benz(a)anthracene	56-55-3	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(a)pyrene	50-32-8	<0.0050		0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(b+j)fluoranthene	n/a	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(g,h,i)perylene	191-24-2	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(k)fluoranthene	207-08-9	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Chrysene	218-01-9	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Dibenz(a,h)anthracene	53-70-3	<0.0050		0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluoranthene	206-44-0	<0.010		0.010	µg/L	E641A	01-May-2023	03-May-2023	916865

Analytical Results

WT2311183-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-219
Client sampling date / time: 28-Apr-2023 01:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1-	90-12-0	0.028	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1+2-	----	0.061	0.015	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 2-	91-57-6	0.033	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	03-May-2023	916865
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	03-May-2023	916865
Pyrene	129-00-0	0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	98.2	0.1	%	E641A	01-May-2023	03-May-2023	916865
Naphthalene-d8	1146-65-2	106	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phenanthrene-d10	1517-22-2	105	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	79.1	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	84.7	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	87.0	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	82.1	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-214
Client sampling date / time: 28-Apr-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	6.96	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0011	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	0.00011	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	0.0462	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Boron, dissolved	7440-42-8	0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	0.0000484	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	149	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	0.00075	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	0.000098	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	55.2	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	0.00042	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	0.962	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	0.00100	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	0.000332	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	5.07	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	3.63	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	0.141	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	5.25	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	0.000320	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	0.0108	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829

Analytical Results

WT2311183-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-214
Client sampling date / time: 28-Apr-2023 14:50

Analyte	CAS Number	Result		LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Carbon tetrachloride	56-23-5	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	OWP.	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	OWP.	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP.	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	OWP.	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	OWP.	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	OWP.	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH-214
Client sampling date / time: 28-Apr-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
BTEX, total	----	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP.	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	03-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	03-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F1-BTEX	----	<25	25	µg/L	EC580	-	02-May-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	03-May-2023	916864
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.8	1.0	%	E601.SG	01-May-2023	03-May-2023	916864
Dichlorotoluene, 3,4-	95-75-0	81.2	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	89.7	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	98.4	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1-	90-12-0	0.031	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1+2-	----	0.071	0.015	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 2-	91-57-6	0.040	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	03-May-2023	916865
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	03-May-2023	916865
Pyrene	129-00-0	0.012	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	94.1	0.1	%	E641A	01-May-2023	03-May-2023	916865
Naphthalene-d8	1146-65-2	106	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phenanthrene-d10	1517-22-2	105	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								

Analytical Results

WT2311183-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH-214

Client sampling date / time: 28-Apr-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.4	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	91.5	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	104	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	87.8	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2311183-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 28-Apr-2023 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl	02-May-2023	02-May-2023	918756
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333	01-May-2023	01-May-2023	917621
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Barium, dissolved	7440-39-3	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	01-May-2023	01-May-2023	916829
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829

Analytical Results

WT2311183-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 28-Apr-2023 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421	01-May-2023	01-May-2023	916829
Calcium, dissolved	7440-70-2	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421	01-May-2023	01-May-2023	916829
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Magnesium, dissolved	7439-95-4	<0.0050	0.0050	mg/L	E421	01-May-2023	01-May-2023	916829
Manganese, dissolved	7439-96-5	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509	02-May-2023	02-May-2023	917627
Molybdenum, dissolved	7439-98-7	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Potassium, dissolved	7440-09-7	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Rubidium, dissolved	7440-17-7	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421	01-May-2023	01-May-2023	916829
Silicon, dissolved	7440-21-3	0.156 RRV.	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Sodium, dissolved	7440-23-5	<0.050	0.050	mg/L	E421	01-May-2023	01-May-2023	916829
Strontium, dissolved	7440-24-6	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421	01-May-2023	01-May-2023	916829
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	01-May-2023	01-May-2023	916829
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Tin, dissolved	7440-31-5	0.00012 RRV.	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	01-May-2023	01-May-2023	916829
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421	01-May-2023	01-May-2023	916829
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	01-May-2023	01-May-2023	916829
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421	01-May-2023	01-May-2023	916829
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	01-May-2023	01-May-2023	916829
Dissolved mercury filtration location	----	Field	-	-	EP509	-	02-May-2023	917627
Dissolved metals filtration location	----	Field	-	-	EP421	-	01-May-2023	916829
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A	-	01-May-2023	916929
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	08-May-2023	08-May-2023	926273
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Benzene	71-43-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859

Analytical Results

WT2311183-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 28-Apr-2023 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Chloroform	67-66-3	0.82	0.50	µg/L	E611D	01-May-2023	02-May-2023	916859
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	01-May-2023	01-May-2023	916859
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Styrene	100-42-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Toluene	108-88-3	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	01-May-2023	01-May-2023	916859
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	01-May-2023	01-May-2023	916859
BTEX, total	----	<1.0	1.0	µg/L	E611D	01-May-2023	01-May-2023	916859
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	01-May-2023	01-May-2023	916860
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F2-Naphthalene	----	<100	100	µg/L	EC600SG	-	03-May-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	03-May-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	01-May-2023	03-May-2023	916864
F1-BTEX	----	<25	25	µg/L	EC580	-	03-May-2023	-

Analytical Results

WT2311183-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 28-Apr-2023 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG	-	02-May-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	01-May-2023	03-May-2023	916864
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.9	1.0	%	E601.SG	01-May-2023	03-May-2023	916864
Dichlorotoluene, 3,4-	95-75-0	105	1.0	%	E581.F1-L	01-May-2023	01-May-2023	916860
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.9	1.0	%	E611D	01-May-2023	01-May-2023	916859
Difluorobenzene, 1,4-	540-36-3	99.6	1.0	%	E611D	01-May-2023	01-May-2023	916859
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	01-May-2023	03-May-2023	916865
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	01-May-2023	03-May-2023	916865
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	01-May-2023	03-May-2023	916865
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A	01-May-2023	03-May-2023	916865
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	98.4	0.1	%	E641A	01-May-2023	03-May-2023	916865
Naphthalene-d8	1146-65-2	108	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phenanthrene-d10	1517-22-2	107	0.1	%	E641A	01-May-2023	03-May-2023	916865
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A	03-May-2023	04-May-2023	921266

Analytical Results

WT2311183-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 28-Apr-2023 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	81.6	1.0	%	E655A	03-May-2023	04-May-2023	921266
Nitrobenzene-d5	4165-60-0	88.0	1.0	%	E655A	03-May-2023	04-May-2023	921266
Terphenyl-d14, p-	1718-51-0	94.2	1.0	%	E655A	03-May-2023	04-May-2023	921266
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A	03-May-2023	04-May-2023	921266
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A	03-May-2023	04-May-2023	921266
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenol	108-95-2	<0.50	0.50	µg/L	E655A	03-May-2023	04-May-2023	921266
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	82.3	0.20	%	E655A	03-May-2023	04-May-2023	921266

Please refer to the General Comments section for an explanation of any qualifiers detected.

ALS Canada Ltd.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2311183**	Page	: 1 of 24
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 28-Apr-2023 17:00
PO	: 73522487	Issue Date	: 08-May-2023 22:46
C-O-C number	: ----		
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Matrix Spike outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Non-Chlorinated Phenolics	QC-MRG2-921266002	----	Dinitrophenol, 2,4-	51-28-5	E655A	152 % LCS-H	50.0-140%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	*Description*
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AgWell	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AppWell	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH-213	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH-214	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) Dup	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) FB	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW1-20	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW2-20	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW3-20	E567	28-Apr-2023	08-May-2023	28 days	10 days	✓	08-May-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH-219	E567	28-Apr-2023	08-May-2023	28 days	11 days	✓	08-May-2023	40 days	0 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] AgWell	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] AppWell	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH-213	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH-214	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] Dup	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] FB	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW1-20	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW2-20	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW3-20	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
BH-219	E235.Cl	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	5 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AgWell	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-213	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-214	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
Dup	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW2-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-219	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AppWell	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	05-May-2023	40 days	2 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
AgWell	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
AppWell	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
BH-213	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
BH-214	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times: Rec	Holding Times: Actual	Eval	Analysis: Analysis Date	Holding Times: Rec	Holding Times: Actual	Eval
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
Dup	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
FB	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
MW1-20	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
MW2-20	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
MW3-20	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
BH-219	E333	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
AppWell	E509	28-Apr-2023	01-May-2023	----	----		01-May-2023	28 days	3 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
AgWell	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
BH-213	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis: Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
BH-214	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
BH-219	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
Dup	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
FB	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW1-20	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW2-20	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW3-20	E509	28-Apr-2023	02-May-2023	----	----		02-May-2023	28 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
AgWell	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
AppWell	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
BH-213	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
BH-214	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
BH-219	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
Dup	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
FB	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW1-20	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW2-20	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW3-20	E421	28-Apr-2023	01-May-2023	----	----		01-May-2023	180 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
AgWell	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) AppWell	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) BH-213	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) BH-214	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) BH-219	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) Dup	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) FB	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW1-20	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW2-20	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW3-20	E581.F1-L	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
BH-213	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	03-May-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
BH-214	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	03-May-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
BH-219	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	03-May-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
FB	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	03-May-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	03-May-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
AgWell	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	04-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
AppWell	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	04-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
Dup	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	04-May-2023	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	04-May-2023	40 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap [ON MECP] MW2-20	E601.SG	28-Apr-2023	01-May-2023	7 days	3 days	✓	04-May-2023	40 days	3 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] AgWell	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH-213	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH-214	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] Dup	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] FB	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW2-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW3-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH-219	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AppWell	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	05-May-2023	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AgWell	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-213	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-214	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
Dup	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW2-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-219	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AppWell	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	05-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-213	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	03-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-214	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	03-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-219	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	03-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	03-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	03-May-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AgWell	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	04-May-2023	40 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP] AppWell	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	04-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP] Dup	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	04-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW1-20	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	04-May-2023	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW2-20	E641A	28-Apr-2023	01-May-2023	14 days	3 days	✓	04-May-2023	40 days	3 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] AgWell	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH-213	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH-214	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] Dup	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] FB	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW2-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E655A	28-Apr-2023	03-May-2023	14 days	5 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH-219	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	04-May-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AppWell	E655A	28-Apr-2023	03-May-2023	14 days	6 days	✓	05-May-2023	40 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AgWell	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AppWell	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH-213	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH-214	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis: Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH-219	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
Dup	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
FB	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW1-20	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW2-20	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW3-20	E532A	28-Apr-2023	----	----	----		01-May-2023	28 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
AgWell	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
AppWell	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH-213	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) BH-214	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) BH-219	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) Dup	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) FB	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW1-20	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW2-20	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW3-20	E611D	28-Apr-2023	01-May-2023	----	----		01-May-2023	14 days	3 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	916860	1	11	9.0	5.0	✓
Chloride in Water by IC	E235.Cl	918756	1	11	9.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	916929	1	19	5.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	917216	2	33	6.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	916829	1	18	5.5	5.0	✓
Total Cyanide	E333	917621	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	916859	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
BNA (ON 625-511 list) by GC-MS	E655A	921266	1	13	7.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	916860	1	11	9.0	5.0	✓
Chloride in Water by IC	E235.Cl	918756	1	11	9.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	916929	1	19	5.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	917216	2	33	6.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	916829	1	18	5.5	5.0	✓
Oil & Grease by Gravimetry	E567	926273	1	18	5.5	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	916856	2	23	8.7	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	916857	2	30	6.6	5.0	✓
Total Cyanide	E333	917621	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	916859	1	20	5.0	5.0	✓
Method Blanks (MB)							
BNA (ON 625-511 list) by GC-MS	E655A	921266	1	13	7.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	916860	1	11	9.0	5.0	✓
Chloride in Water by IC	E235.Cl	918756	1	11	9.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	916929	1	19	5.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	917216	2	33	6.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	916829	1	18	5.5	5.0	✓
Oil & Grease by Gravimetry	E567	926273	1	18	5.5	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	916856	2	23	8.7	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	916857	2	30	6.6	5.0	✓
Total Cyanide	E333	917621	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	916859	1	20	5.0	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	916860	1	11	9.0	5.0	✓
Chloride in Water by IC	E235.Cl	918756	1	11	9.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	916929	1	19	5.2	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Mercury in Water by CVAAS	E509	917216	2	33	6.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	916829	1	18	5.5	5.0	✓
Total Cyanide	E333	917621	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	916859	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chloride in Water by IC	E235.Cl Waterloo - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Total Cyanide	E333 Waterloo - Environmental	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Dissolved Metals in Water by CRC ICPMS	E421 Waterloo - Environmental	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 Waterloo - Environmental	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A Waterloo - Environmental	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
Oil & Grease by Gravimetry	E567 Waterloo - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Sample extracts are analyzed by GC-FID for CCME hydrocarbon fractions (F2-F4), as per the CCME Analytical Methods Guidance Manual (2016)
VOCs (Eastern Canada List) by Headspace GC-MS	E611D Waterloo - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
PAHs by Hexane LVI GC-MS	E641A Waterloo - Environmental	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
BNA (ON 625-511 list) by GC-MS	E655A Waterloo - Environmental	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS.
F1-BTEX	EC580 Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
Oil & Grease Extraction for Gravimetry	EP567 Waterloo - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.
VOCs Preparation for Headspace Analysis	EP581 Waterloo - Environmental	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 Waterloo - Environmental	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
BNA Extraction	EP655	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
	Waterloo - Environmental			

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QUALITY CONTROL REPORT

Work Order	: **WT2311183**	Page	: 1 of 18
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 28-Apr-2023 17:00
PO	: 73522487	Date Analysis Commenced	: 01-May-2023
C-O-C number	: ----	Issue Date	: 08-May-2023 22:46
Sampler	: ---- 519 725 3313		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 918756)											
WT2311133-002	Anonymous	Chloride	16887-00-6	E235.Cl	2.50	mg/L	322	323	0.334%	20%	----
Cyanides (QC Lot: 917621)											
WT2311175-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.0020	mg/L	<0.0020	<0.0020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 916829)											
WT2311088-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0100	mg/L	0.0132	0.0142	0.0009	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00100	mg/L	135 µg/L	0.136	0.344%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000200	mg/L	<0.200 µg/L	<0.000200	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000500	mg/L	<0.000500	<0.000500	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.100	mg/L	270 µg/L	0.269	0.001	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000500	mg/L	<0.0500 µg/L	<0.0000500	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.500	mg/L	201	198	1.54%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000100	mg/L	<0.000100	<0.000100	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00200	mg/L	<2.00 µg/L	<0.00200	0	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.100	mg/L	1.53	1.53	0.0548%	20%	----
		Lead, dissolved	7439-92-1	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0100	mg/L	0.0179	0.0177	0.0002	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0500	mg/L	41.3	41.2	0.186%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00100	mg/L	1.56	1.54	1.92%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000500	mg/L	4.00 µg/L	0.00434	0.000344	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.00500	mg/L	8.68 µg/L	0.00805	0.00063	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.500	mg/L	<0.500	<0.500	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.500	mg/L	10.1	10.1	0.245%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00200	mg/L	0.00564	0.00590	0.00026	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.500	mg/L	8.63	8.76	1.42%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 916829) - continued											
WT2311088-001	Anonymous	Sodium, dissolved	7440-23-5	E421	0.500	mg/L	297000 µg/L	295	0.533%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00200	mg/L	0.849	0.900	5.80%	20%	----
		Sulfur, dissolved	7704-34-9	E421	5.00	mg/L	31.3	31.2	0.13	Diff <2x LOR	----
		Tellurium, dissolved	13494-80-9	E421	0.00200	mg/L	<0.00200	<0.00200	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00300	mg/L	<0.00300	<0.00300	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00100	mg/L	0.00507	0.00517	0.00010	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000100	mg/L	0.897 µg/L	0.000918	0.000022	Diff <2x LOR	----
		Vanadium, dissolved	7440-62-2	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0100	mg/L	<10.0 µg/L	<0.0100	0	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00300	mg/L	<0.00300	<0.00300	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 917216)											
WT2310967-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 917627)											
WT2311183-002	MW1-20	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 916929)											
WT2310967-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 916859)											
WT2310953-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	8.18	7.47	9.07%	30%	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 916859) - continued											
WT2310953-001	Anonymous	Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 916860)											
WT2310953-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients (QCLot: 918756)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 917621)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 916829)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 916829) - continued						
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 917216)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 917627)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 916929)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 926273)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Volatile Organic Compounds (QCLot: 916859)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 916859) - continued						
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 916857)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Hydrocarbons (QCLot: 916860)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 916864)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 916856)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Polycyclic Aromatic Hydrocarbons (QCLot: 916865)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 916865) - continued						
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Phthalate Esters (QCLot: 921266)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Semi-Volatile Organics (QCLot: 921266)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 921266)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Non-Chlorinated Phenolics (QCLot: 921266)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 918756)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Cyanides (QCLot: 917621)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	91.1	80.0	120	----
Dissolved Metals (QCLot: 916829)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	91.8	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	98.7	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	104	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	101	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	94.6	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	106	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	93.1	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	99.3	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	98.3	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.0025 mg/L	102	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	97.2	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	98.0	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	96.3	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	95.7	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	105	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.0125 mg/L	89.7	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	98.1	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.0125 mg/L	98.9	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	103	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	97.5	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	101	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	93.9	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	102	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	99.9	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	97.6	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	94.3	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	101	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 916829) - continued									
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.0125 mg/L	99.1	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	93.4	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	100	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	103	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	104	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	101	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.0125 mg/L	96.9	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	101	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	107	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	99.4	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	100	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	97.7	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	105	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	99.2	80.0	120	----
Speciated Metals (QCLot: 916929)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	99.4	80.0	120	----
Aggregate Organics (QCLot: 926273)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	93.5	70.0	130	----
Volatile Organic Compounds (QCLot: 916859)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	121	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	112	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	105	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	105	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	96.2	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	85.3	60.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 916859) - continued									
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	109	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	100	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	93.0	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	120	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	119	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	121	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	81.7	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	98.5	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	107	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	106	70.0	130	----
Hydrocarbons (QCLot: 916857)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4613.474 µg/L	93.6	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	6464.481 µg/L	94.2	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4040.361 µg/L	97.8	70.0	130	----
Hydrocarbons (QCLot: 916860)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	98.0	80.0	120	----
Hydrocarbons (QCLot: 916864)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4613.474 µg/L	92.4	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	6464.481 µg/L	92.0	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Hydrocarbons (QCLot: 916864) - continued									
F4 (C34-C50)	----	E601.SG	250	µg/L	4040.361 µg/L	94.7	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 916856)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	84.1	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	90.5	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	95.4	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	102	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	94.9	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	85.2	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	97.2	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	85.5	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	98.8	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	104	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	98.2	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	94.1	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	102	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	77.0	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	75.3	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	76.8	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	94.4	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	98.6	50.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 916865)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	91.9	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	95.9	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	99.5	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	102	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	100	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	92.2	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	92.0	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	89.0	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	97.8	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	96.3	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	98.7	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	97.3	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	95.8	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	90.8	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 916865) - continued									
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	91.2	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	93.4	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	96.9	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	97.3	50.0	140	----
Phthalate Esters (QCLot: 921266)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	105	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	92.0	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	95.7	50.0	140	----
Semi-Volatile Organics (QCLot: 921266)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	91.4	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	85.3	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	86.0	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	44.8	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	61.3	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	119	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	105	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	86.0	50.0	140	----
Chlorinated Phenolics (QCLot: 921266)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	92.4	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	98.6	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	101	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	108	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	100	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 921266)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	96.1	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	# 152	50.0	140	LCS-H
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	111	50.0	140	----

Qualifiers

Qualifier	Description
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 918756)										
WT2311133-002	Anonymous	Chloride	16887-00-6	E235.Cl	509 mg/L	500 mg/L	102	75.0	125	----
Cyanides (QCLot: 917621)										
WT2311175-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.215 mg/L	0.25 mg/L	86.0	75.0	125	----
Dissolved Metals (QCLot: 916829)										
WT2311161-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.912 mg/L	1 mg/L	91.2	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.475 mg/L	0.5 mg/L	95.1	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.513 mg/L	0.5 mg/L	103	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	0.125 mg/L	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0482 mg/L	0.05 mg/L	96.5	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.483 mg/L	0.5 mg/L	96.6	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.456 mg/L	0.5 mg/L	91.1	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.0462 mg/L	0.05 mg/L	92.4	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.0245 mg/L	0.025 mg/L	97.9	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.118 mg/L	0.125 mg/L	94.5	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.117 mg/L	0.125 mg/L	94.0	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.113 mg/L	0.125 mg/L	90.8	70.0	130	----
		Iron, dissolved	7439-89-6	E421	ND mg/L	0.5 mg/L	ND	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.238 mg/L	0.25 mg/L	95.1	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.118 mg/L	0.125 mg/L	94.3	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.115 mg/L	0.125 mg/L	91.8	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.123 mg/L	0.125 mg/L	98.1	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.232 mg/L	0.25 mg/L	92.9	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	4.92 mg/L	5 mg/L	98.5	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	23.4 mg/L	25 mg/L	93.7	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0501 mg/L	0.05 mg/L	100	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.468 mg/L	0.5 mg/L	93.6	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	5 mg/L	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.0432 mg/L	0.05 mg/L	86.5	70.0	130	----

Sub-Matrix: **Water**

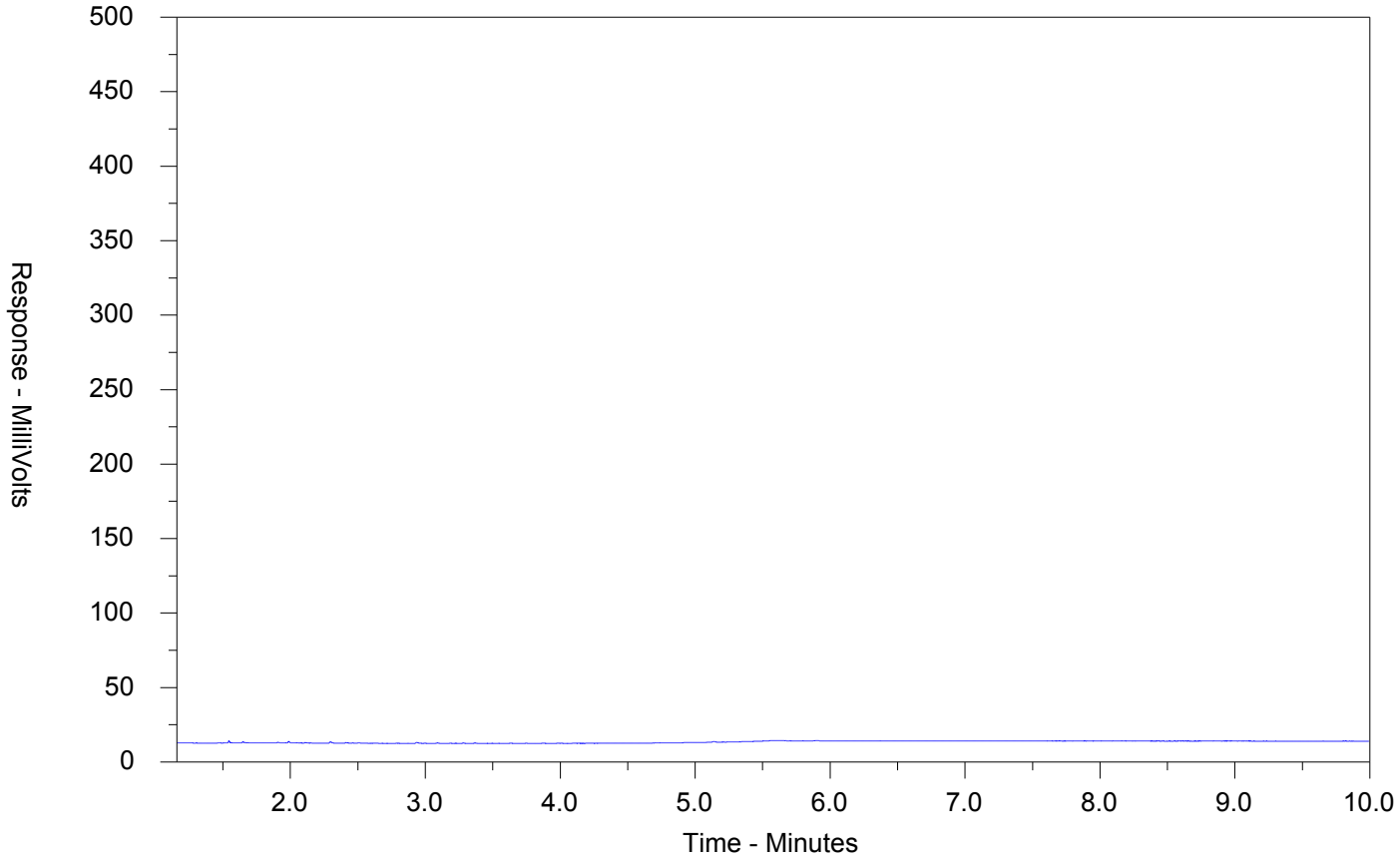
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 916829) - continued										
WT2311161-001	Anonymous	Sodium, dissolved	7440-23-5	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	0.125 mg/L	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0459 mg/L	0.05 mg/L	91.8	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.475 mg/L	0.5 mg/L	95.0	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0488 mg/L	0.05 mg/L	97.7	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.243 mg/L	0.25 mg/L	97.4	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.119 mg/L	0.125 mg/L	95.4	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0478 mg/L	0.05 mg/L	95.5	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00247 mg/L	0.0025 mg/L	98.7	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.245 mg/L	0.25 mg/L	98.2	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.233 mg/L	0.25 mg/L	93.2	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0479 mg/L	0.05 mg/L	95.9	70.0	130	----
Dissolved Metals (QCLot: 917216)										
WT2311069-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000884 mg/L	0.0001 mg/L	88.4	70.0	130	----
Dissolved Metals (QCLot: 917627)										
WT2311183-003	MW2-20	Mercury, dissolved	7439-97-6	E509	0.000101 mg/L	0.0001 mg/L	101	70.0	130	----
Speciated Metals (QCLot: 916929)										
WT2310967-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0394 mg/L	0.04 mg/L	98.4	70.0	130	----
Volatile Organic Compounds (QCLot: 916859)										
WT2310953-001	Anonymous	Acetone	67-64-1	E611D	119 µg/L	100 µg/L	119	60.0	140	----
		Benzene	71-43-2	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Bromoform	75-25-2	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Bromomethane	74-83-9	E611D	98.6 µg/L	100 µg/L	98.6	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Chlorobenzene	108-90-7	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Chloroform	67-66-3	E611D	99.8 µg/L	100 µg/L	99.8	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	94.7 µg/L	100 µg/L	94.7	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	87.1 µg/L	100 µg/L	87.1	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	100.0 µg/L	100 µg/L	100.0	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	77.9 µg/L	100 µg/L	77.9	60.0	140	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 916859) - continued										
WT2310953-001	Anonymous	Dichloroethane, 1,1-	75-34-3	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	99.6 µg/L	100 µg/L	99.6	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	97.2 µg/L	100 µg/L	97.2	60.0	140	----
		Dichloromethane	75-09-2	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	99.9 µg/L	100 µg/L	99.9	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	89.8 µg/L	100 µg/L	89.8	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	82.1 µg/L	100 µg/L	82.1	60.0	140	----
		Ethylbenzene	100-41-4	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Hexane, n-	110-54-3	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	91 µg/L	100 µg/L	91.5	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	84 µg/L	100 µg/L	83.6	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	108 µg/L	100 µg/L	108	60.0	140	----
		Styrene	100-42-5	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	95.2 µg/L	100 µg/L	95.2	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	89.3 µg/L	100 µg/L	89.3	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Toluene	108-88-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	99.4 µg/L	100 µg/L	99.4	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	91.9 µg/L	100 µg/L	91.9	60.0	140	----
		Trichloroethylene	79-01-6	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Vinyl chloride	75-01-4	E611D	92.0 µg/L	100 µg/L	92.0	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	204 µg/L	200 µg/L	102	60.0	140	----
		Xylene, o-	95-47-6	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140	----
Hydrocarbons (QCLot: 916860)										
WT2310953-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1750 µg/L	2000 µg/L	87.5	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-001-E601.SG
Client Sample ID: AppWell



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

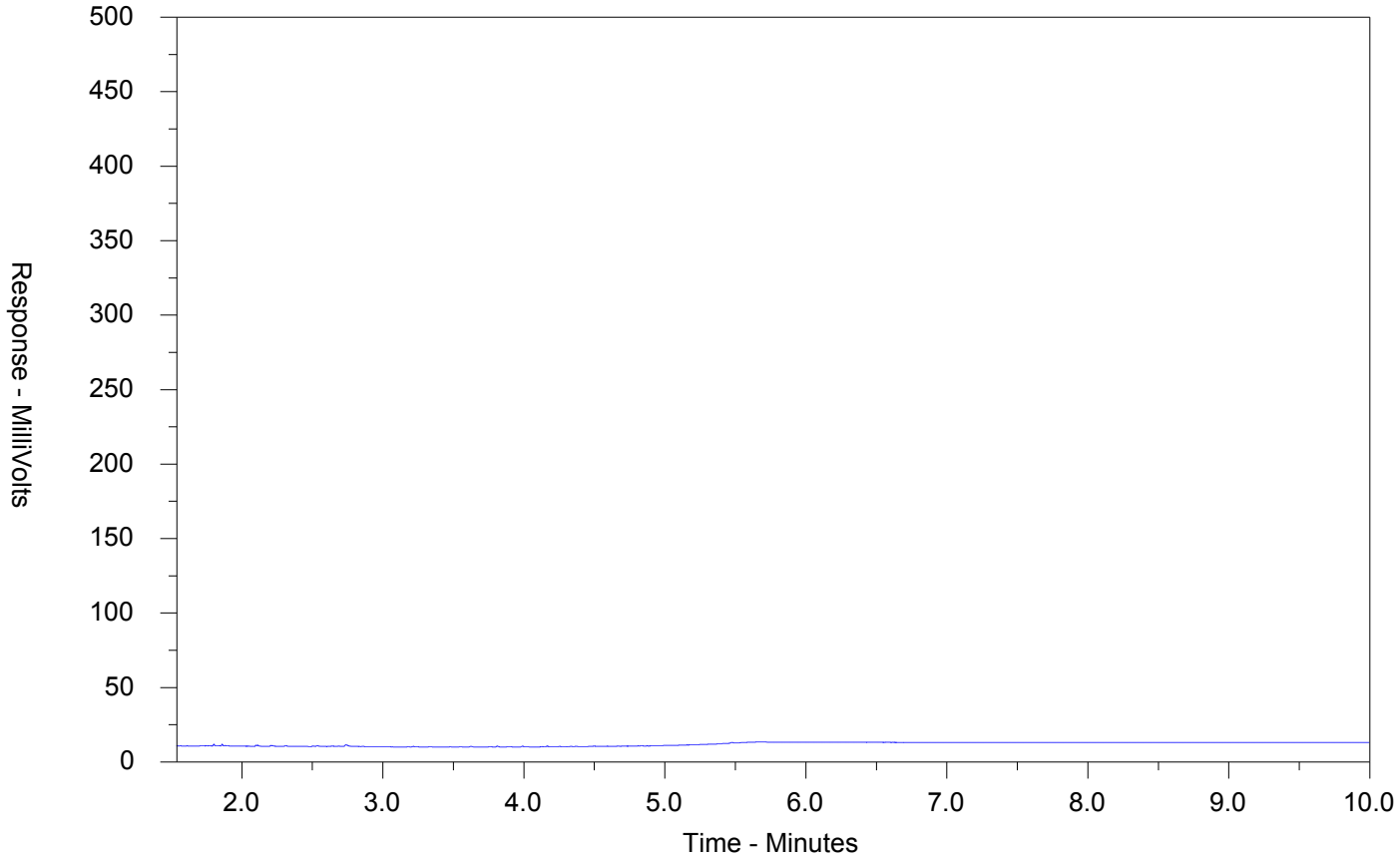
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-002-E601.SG
Client Sample ID: MW1-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

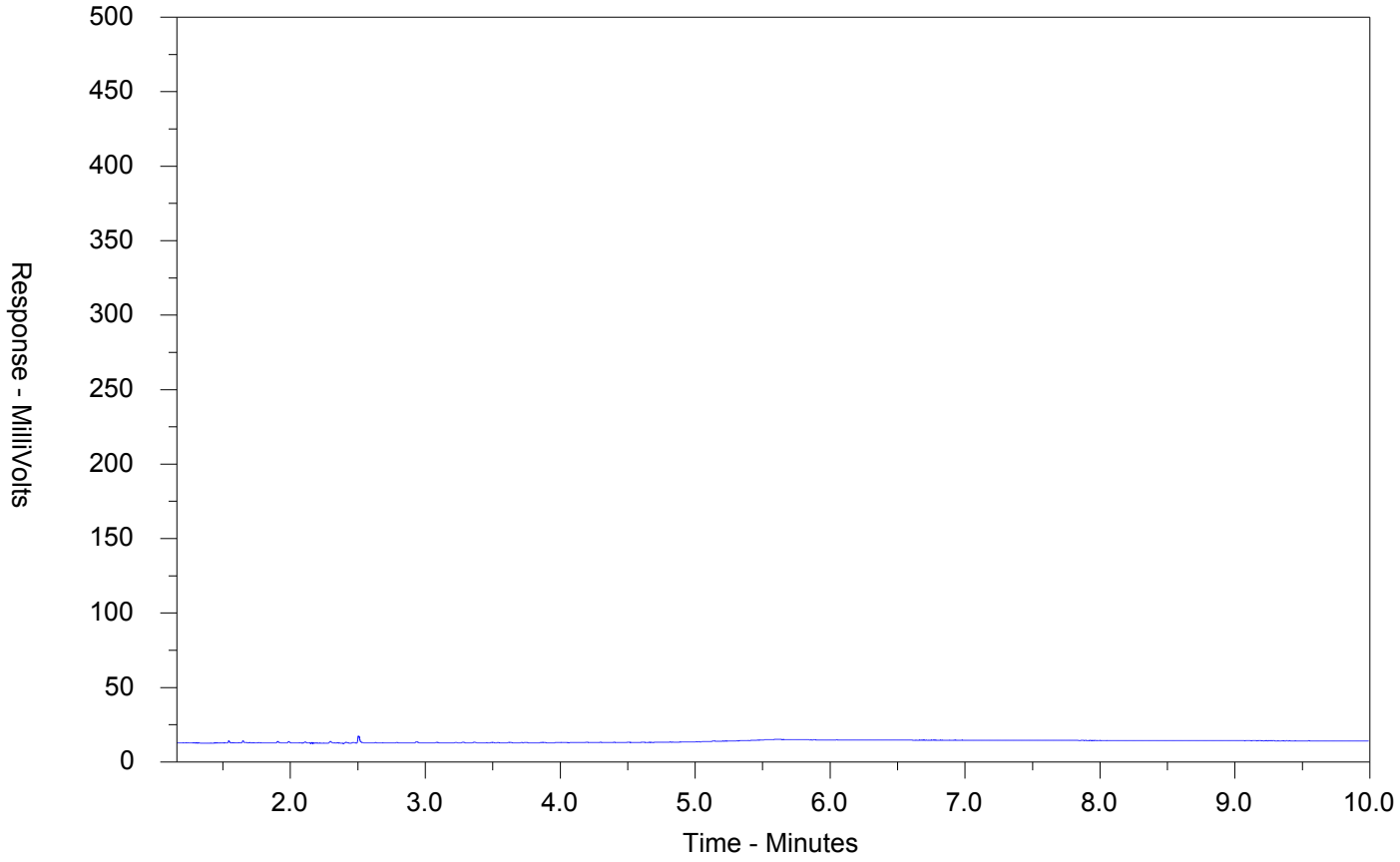
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-003-E601.SG
Client Sample ID: MW2-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

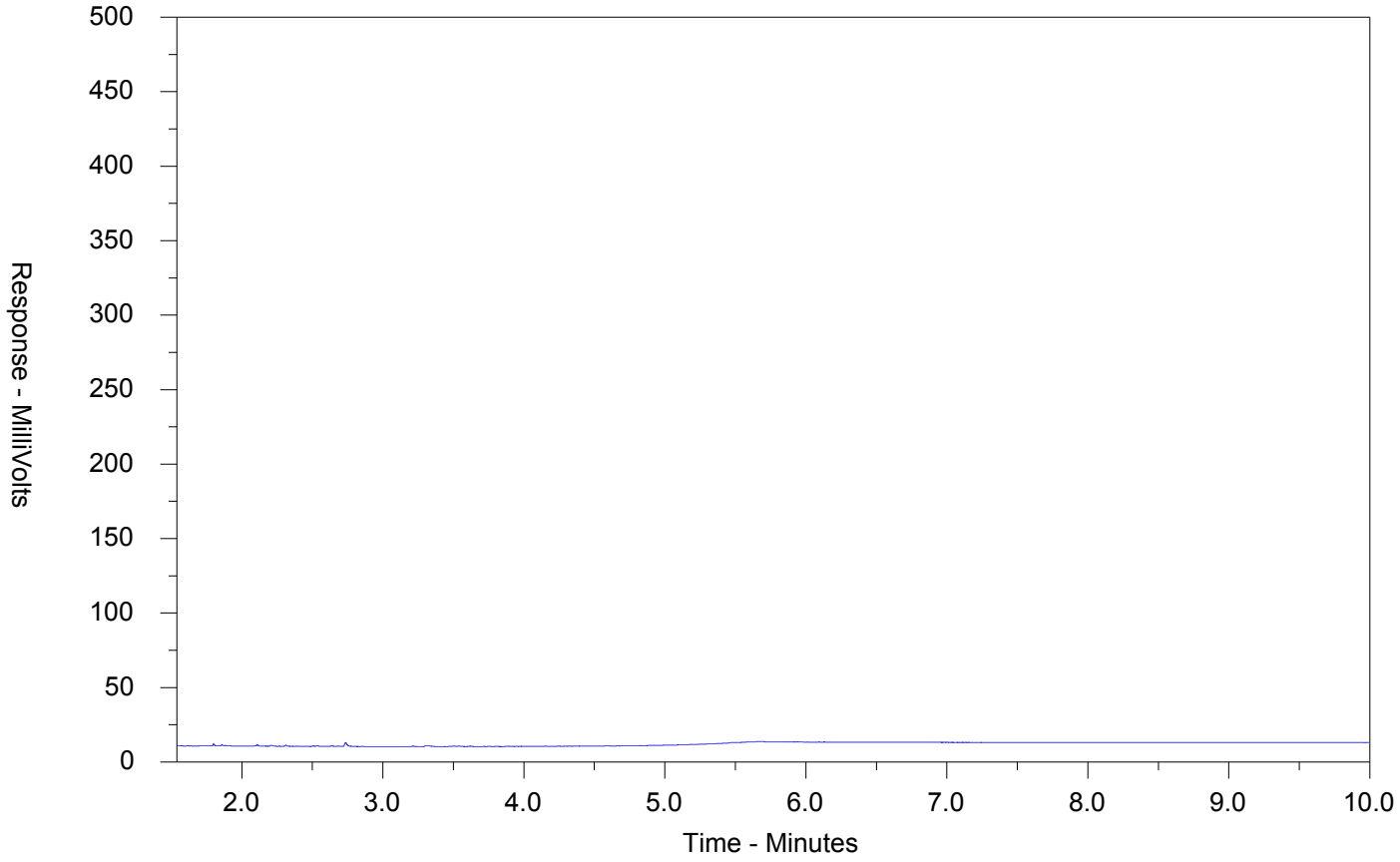
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-004-E601.SG
Client Sample ID: Dup



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

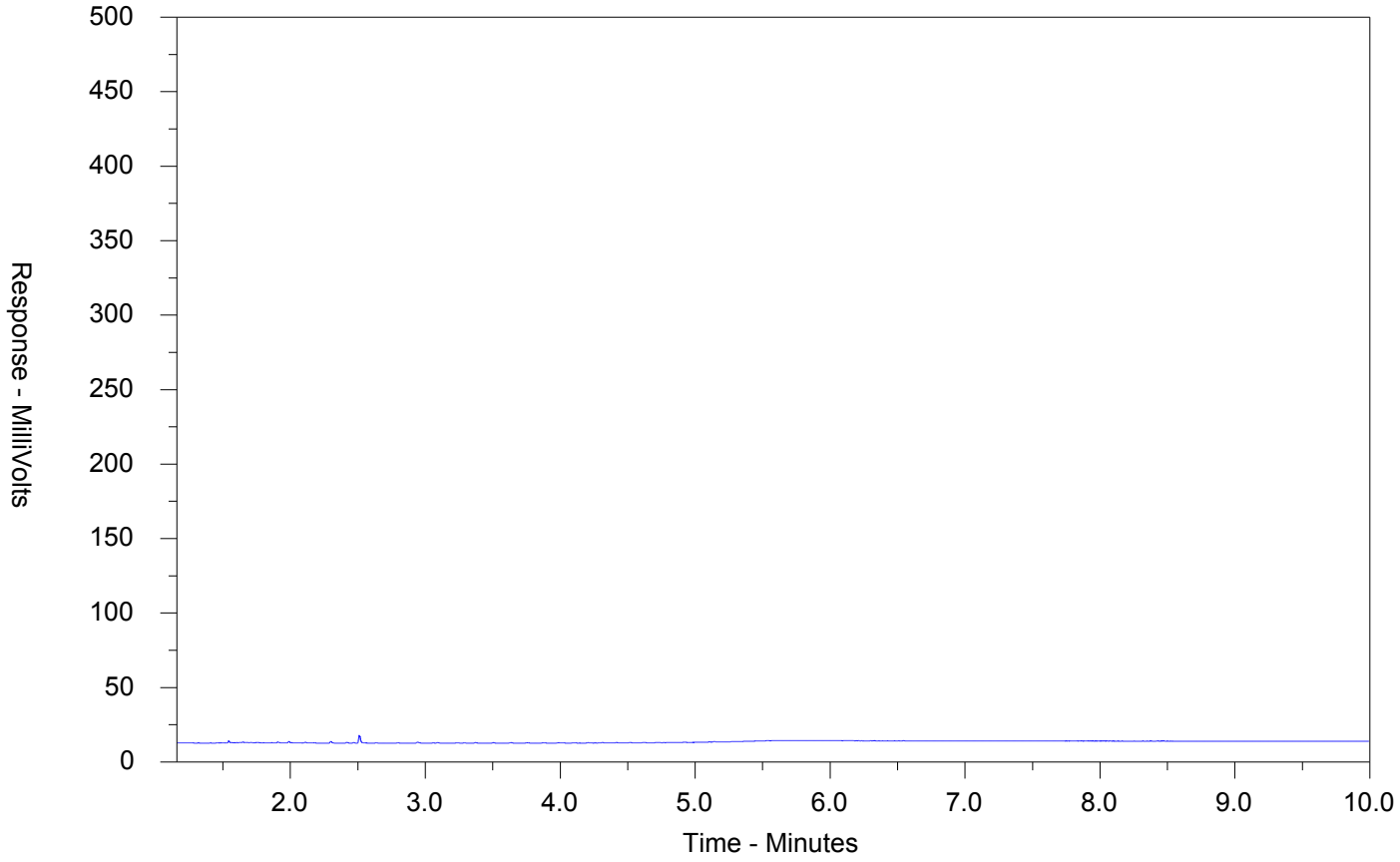
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-005-E601.SG
Client Sample ID: AgWell



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

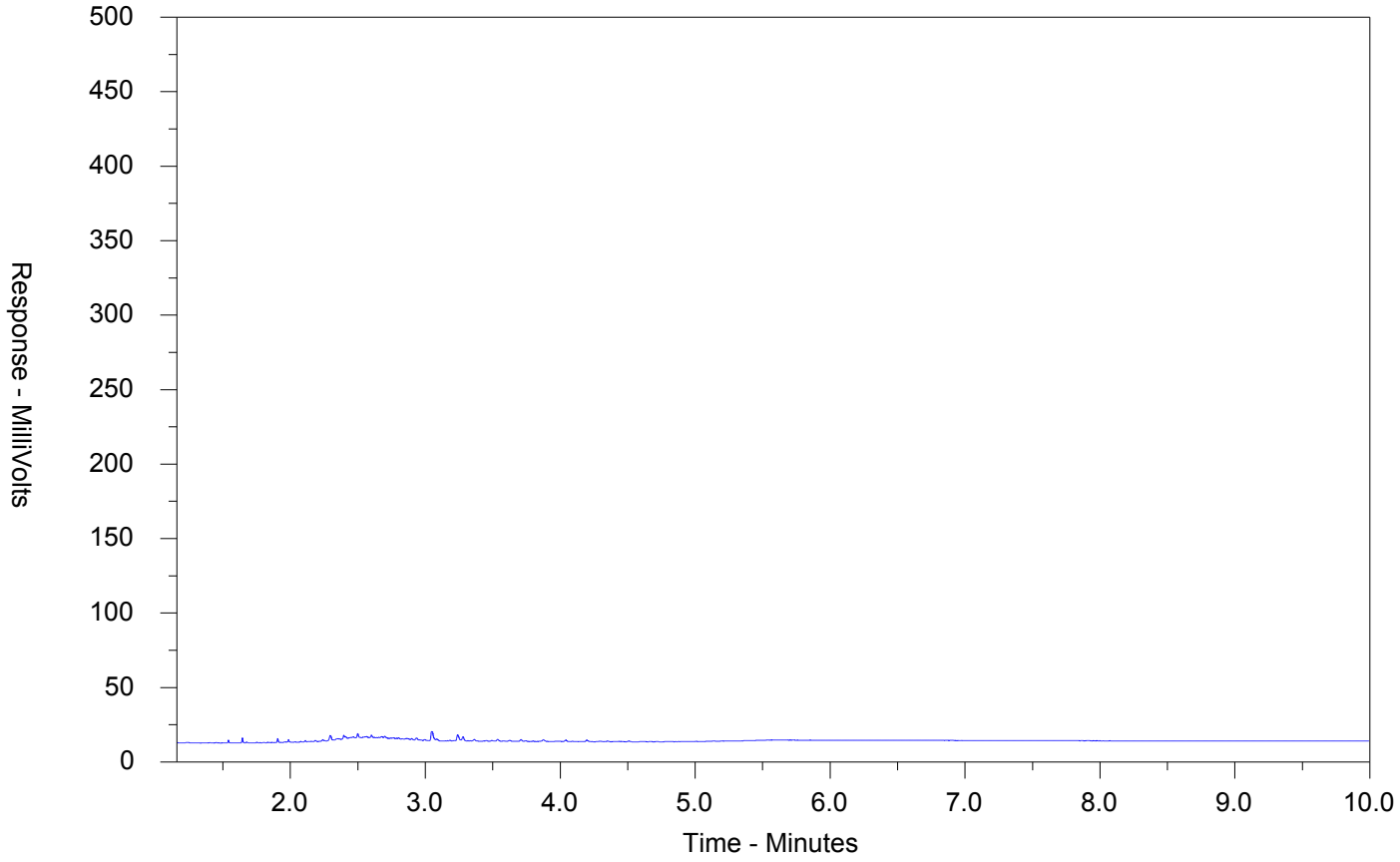
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-006-E601.SG
Client Sample ID: MW3-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

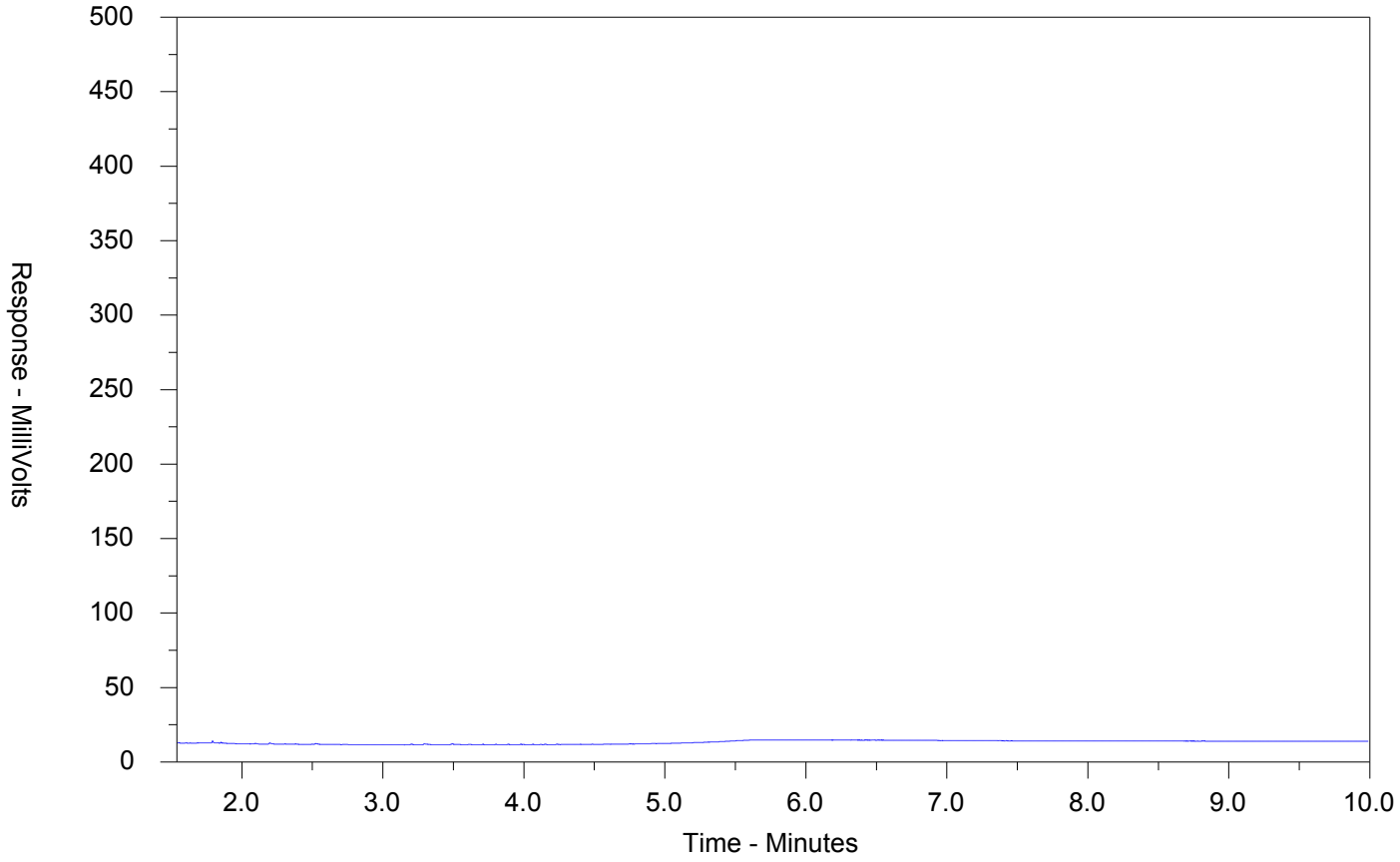
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-007-E601.SG
Client Sample ID: BH-213



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

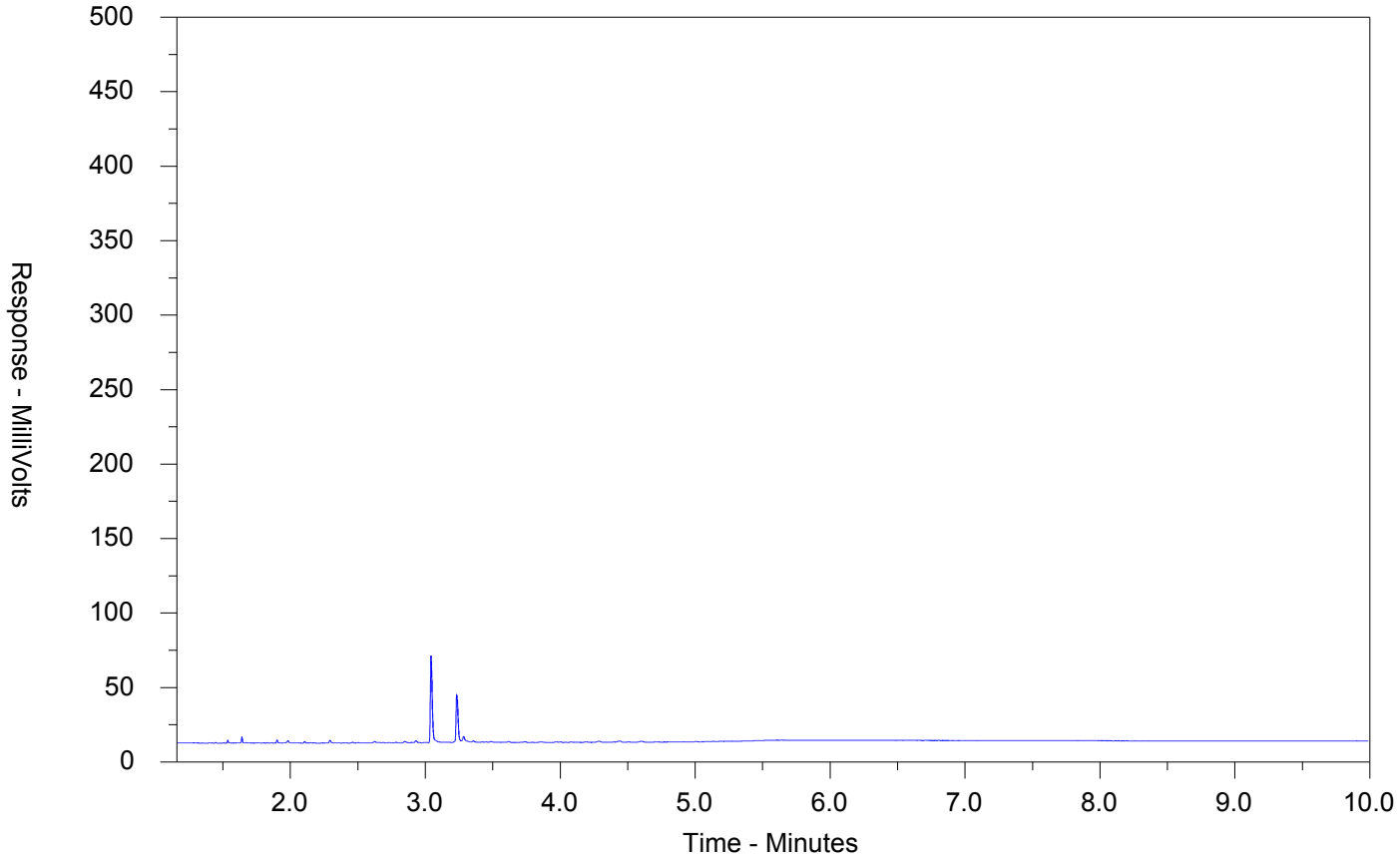
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-008-E601.SG
Client Sample ID: BH-219



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

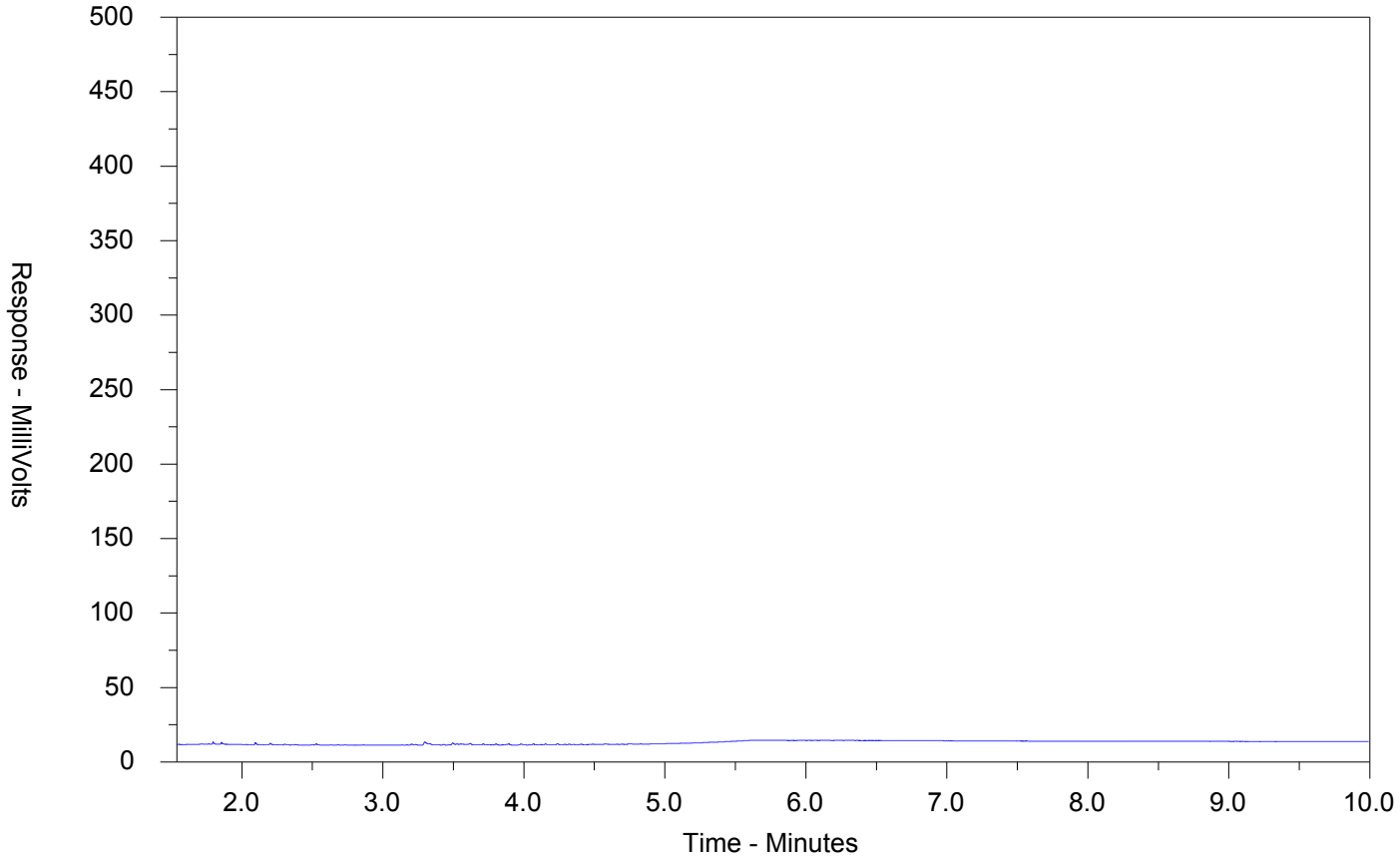
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-009-E601.SG
Client Sample ID: BH-214



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

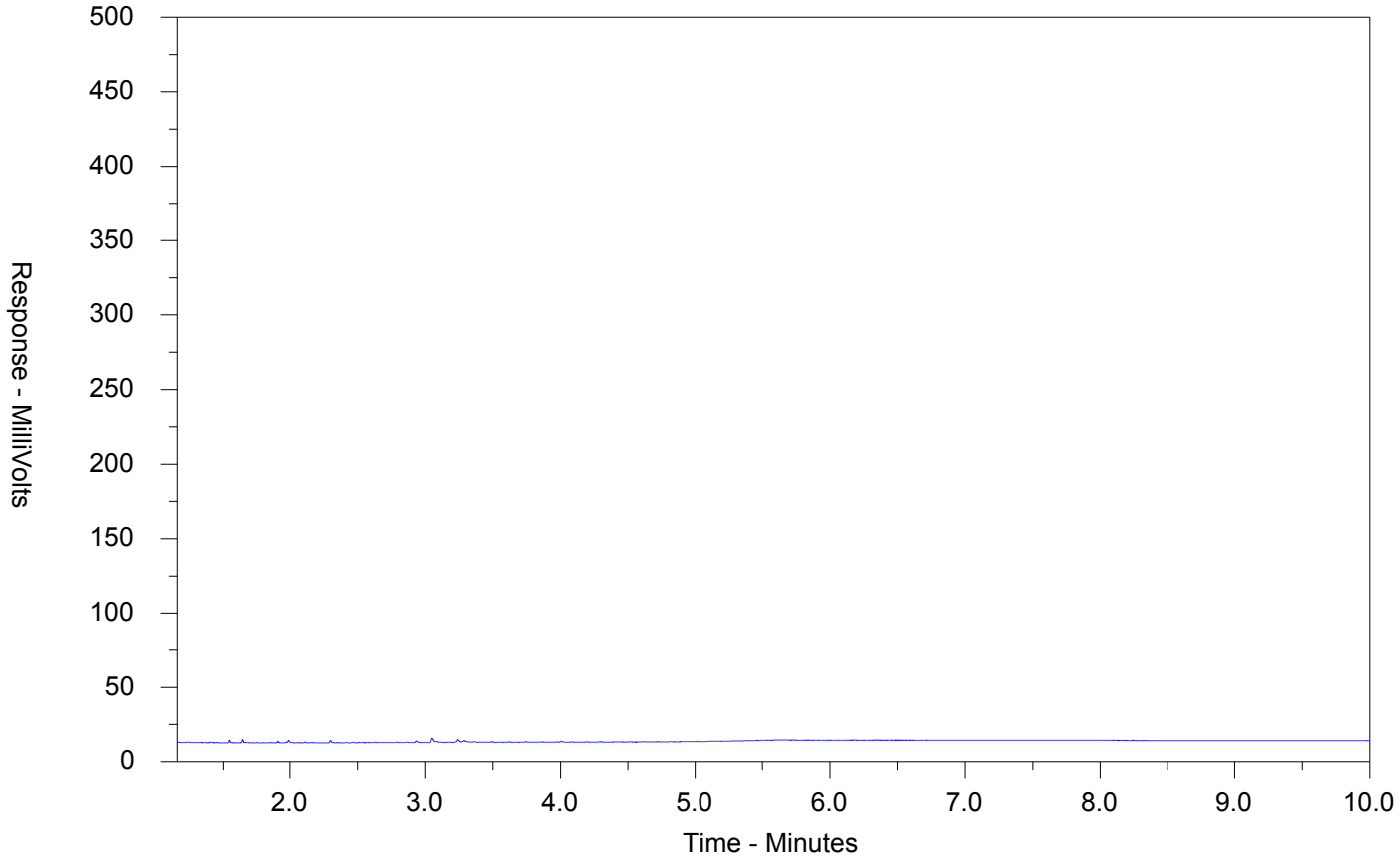
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2311183-010-E601.SG
Client Sample ID: FB



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number:

Pa

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Environmental Division Waterloo
Work Order Reference
WT2311183

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: pascal.renella@ghd.com
Email 2: See SSOW/PO
Email 3:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge mi
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge m
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge m
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge m
Same day [E2] if received by 10am M-S - 200% rush surcha
☐ fees may apply to rush resuests on weekends, statutory holid routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accountspayableCDN@ghd.com
Email 2:

Project Information

ALS Account # / Quote #: GHDL100 / WT2022GHDL1000018
Job #: 11210029
PO / AFE: 73522487
LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#:
Major/Minor Code: Routing Code:
Requisitioner:
Location:

ALS Lab Work Order # (lab use only): 1183 TS
ALS Contact: Rick H
Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	GROUNDWATER ANALYSIS	Dissolved Metals (Field Filter)	Dissolved Mercury (Field Filter)	Dissolved hexavalent Chromium (FF)	Total Cyanide	Total Oil and Grease	Chloride	VOC,PHC F1-F4	SVOCs (including PAHs)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED
	AppWell	28-Apr-23	9:10	Water	13	R	R	R	R	R	R	R	R	R		
	MW1-20	↓	9:50	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
	MW2-20		10:55													
	DUP		10:55													
	AgWell		11:25													
	MW3-20		12:25													
	BH-213		13:15													
	BH-219		14:05													
	BH-214		14:50													
	FB	↓	15:20	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO
Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
			9.4	10.5	10.3	10.7	1

SHIPMENT RELEASE (client use)

Released by: [redacted] Date: Apr 28/23 Time: 16:45

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: [redacted] Date: 28 APR 23 Time: 17

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

MM-881 GC-757 CN-025
SG298 VW-215 OR-521 OS-195/194 OGG5:3

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2319485**	Page	: 1 of 49
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 30-Jun-2023 09:20
PO	: 73522487	Date Analysis Commenced	: 30-Jun-2023
C-O-C number	: ----	Issue Date	: 14-Jul-2023 13:01
Sampler	: T.HAMILTON		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Manuel TavaraTello	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Metals, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Sample Comments

Sample	Client Id	*Comment*
WT2319485-001	AG WELL	RRR: Detection limit raised due to bias low analyte response in continuing calibration standard.
WT2319485-002	APP WELL	RRR: Detection limit raised due to bias low analyte response in continuing calibration standard.
WT2319485-003	MW1-20	RRR: Detection limit raised due to bias low analyte response in continuing calibration standard.
WT2319485-004	MW4-23	RRR: Detection limit raised due to bias low analyte response in continuing calibration standard.
WT2319485-007	MW5-23	RRR: Although the method blank is non-detect there is a strong peak for Diethyl phthalate causing uncertainty near the detection limit, therefore it has been raised accordingly.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
HSED	*High sediment content in submitted water sample. Analysis could only proceed using aqueous fraction after decanting. Results may be biased low and may be inappropriate for regulatory or compliance purposes.*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*
RRR	*Refer to report comments for issues regarding this analysis.*
SUR-ND	*Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.*

Analytical Results

WT2319485-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG WELL
Client sampling date / time: 28-Jun-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	17.9	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0025	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00481	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0626	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	0.0000053	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	75.1	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00235	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	0.567	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	0.000083	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0041	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	37.2	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.0136	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000446	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	0.993	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	9.27	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	7.20	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.138	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	17.1	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000196	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0052	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691

Analytical Results

WT2319485-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG WELL
Client sampling date / time: 28-Jun-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020507
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702

Analytical Results

WT2319485-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG WELL
Client sampling date / time: 28-Jun-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	78.1	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	91.0	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	95.2	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Difluorobenzene, 1,4-	540-36-3	98.5	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	108	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	96.3	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	114	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								

Analytical Results

WT2319485-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AG WELL
Client sampling date / time: 28-Jun-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	68.0	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Nitrobenzene-d5	4165-60-0	66.0	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Terphenyl-d14, p-	1718-51-0	87.2	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR.	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	98.5	0.20	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: APP WELL
Client sampling date / time: 28-Jun-2023 12:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	5.10	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0014	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APP WELL
Client sampling date / time: 28-Jun-2023 12:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00469	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0798	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.015	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	50.5	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	0.152	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0039	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	28.5	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.00638	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000537	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	1.00	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00040	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.00629	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	7.48	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	6.15	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.438	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	11.7	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000406	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593

Analytical Results

WT2319485-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APP WELL
Client sampling date / time: 28-Jun-2023 12:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703

Analytical Results

WT2319485-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APP WELL
Client sampling date / time: 28-Jun-2023 12:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	77.6	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	88.0	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.9	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Difluorobenzene, 1,4-	540-36-3	98.8	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	108	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	112	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Analytical Results

WT2319485-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: APP WELL
Client sampling date / time: 28-Jun-2023 12:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.1	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Nitrobenzene-d5	4165-60-0	93.8	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Terphenyl-d14, p-	1718-51-0	95.3	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR,	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	105	0.20	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Jun-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	92.8 DLDS,	2.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0017	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00015	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0846	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.035	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-003

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 28-Jun-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	0.0000610	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	145	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00354	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	0.000330	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0016	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	45.5	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.00079	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000167	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	12.8	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00068	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.00197	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	4.75	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	23.0	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.170	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	15.3	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	0.000017	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000340	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0406	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702

Analytical Results

WT2319485-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Jun-2023 14:50

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorodifluoromethane	75-71-8	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,1-	75-34-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylenes, total	1330-20-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
BTEX, total	----	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653

Analytical Results

WT2319485-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 28-Jun-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.4	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	72.1	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	93.8	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Difluorobenzene, 1,4-	540-36-3	98.3	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	0.029	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	0.022	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	108	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	104	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	111	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Analytical Results

WT2319485-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 28-Jun-2023 14:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	89.1	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Nitrobenzene-d5	4165-60-0	86.7	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Terphenyl-d14, p-	1718-51-0	91.4	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	92.6	0.20	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	10.9	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0019	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00022	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0986	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.012	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	87.1	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	0.00123	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-004

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Copper, dissolved	7440-50-8	0.00124	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0020	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	36.7	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.0133	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000759	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	3.81	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00082	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000494	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	7.30	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	5.17	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.115	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	6.56	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000580	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0018	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00122	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702

Analytical Results

WT2319485-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorodifluoromethane	75-71-8	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,1-	75-34-3	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,2-	107-06-2	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloromethane	75-09-2	<1.0 OWP.	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropane, 1,2-	78-87-5	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP.	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP.	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP.	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Ethylbenzene	100-41-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hexane, n-	110-54-3	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP.	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP.	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Styrene	100-42-5	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethylene	127-18-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Toluene	108-88-3	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethylene	79-01-6	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichlorofluoromethane	75-69-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Vinyl chloride	75-01-4	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, m+p-	179601-23-1	<0.40 OWP.	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, o-	95-47-6	<0.30 OWP.	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylenes, total	1330-20-7	<0.50 OWP.	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
BTEX, total	----	<1.0 OWP.	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP.	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.1	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653

Analytical Results

WT2319485-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	80.5	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.7	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Difluorobenzene, 1,4-	540-36-3	98.4	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.037	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.086	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.049	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	103	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	92.4	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	98.2	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	68.4	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Nitrobenzene-d5	4165-60-0	79.3	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Analytical Results

WT2319485-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	96.2	1.0	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR	2.0	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	09-Jul-2023	11-Jul-2023	1030246
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	112	0.20	%	E655A/WT	09-Jul-2023	11-Jul-2023	1030246

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23X
Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	11.0	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0017	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00022	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0966	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.011	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	87.5	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	0.00127	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00128	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0020	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	36.5	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23X

Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Manganese, dissolved	7439-96-5	0.0127	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000747	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	3.73	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00082	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000468	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	7.21	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	5.20	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.115	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	6.48	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000595	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0044	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00125	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702

Analytical Results

WT2319485-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23X
Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Xylenes, total	1330-20-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
BTEX, total	----	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.4		1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	79.4		1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1020703
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	95.6		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Difluorobenzene, 1,4-	540-36-3	98.3		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1020702
Polycyclic Aromatic Hydrocarbons									

Analytical Results

WT2319485-005

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW4-23X

Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.033	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.077	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.044	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	109	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	101	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	116	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60 HSED,	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	85.7	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	86.3	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	86.2	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23X

Client sampling date / time: 29-Jun-2023 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	90.1	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB1

Client sampling date / time: 29-Jun-2023 10:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	<0.0050	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB1
Client sampling date / time: 29-Jun-2023 10:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Potassium, dissolved	7440-09-7	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	0.193	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	0.00023	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	0.62	0.50	µg/L	E611D/WT	04-Jul-2023	05-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-006

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: FB1
Client sampling date / time: 29-Jun-2023 10:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	06-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	73.3	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	102	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.6	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	97.9	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654

Analytical Results

WT2319485-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB1
Client sampling date / time: 29-Jun-2023 10:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	94.6	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	101	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	110	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	89.0	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	91.0	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	94.2	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB1

Client sampling date / time: 29-Jun-2023 10:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	87.2	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 29-Jun-2023 11:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	19.0	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0025	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	0.00011	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00019	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0444	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.018	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	75.7	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	0.00059	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00077	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0014	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	26.0	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.00338	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.00144	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	1.46	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00144	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000585	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	6.04	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 29-Jun-2023 11:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sodium, dissolved	7440-23-5	7.55	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.107	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	2.06	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	0.000012	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000270	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0024	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00052	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0 OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 29-Jun-2023 11:10

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	0.73	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	0.43	OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	1.2	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.0		1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	92.4		1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	94.7		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	97.7		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050		0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010		0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050		0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654

Analytical Results

WT2319485-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 29-Jun-2023 11:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.031	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.072	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.041	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	0.051	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	106	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	113	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.22 HSED, RRR,	0.22	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60 HSED,	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	87.8	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	86.4	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	90.3	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	89.1	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 29-Jun-2023 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	16.6	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0025	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00103	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0998	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.081	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	0.000107	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	114	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	0.00078	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.0176	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0015	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	42.4	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.114	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000157	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	0.00597	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	0.058	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	69.0 DLHC,	0.500	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.0129	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000169	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	4.72	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	12.5	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.147	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	11.4	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	0.000082	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000532	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0274	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691

Analytical Results

WT2319485-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 29-Jun-2023 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 29-Jun-2023 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.0	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	92.5	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	93.0	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	98.0	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	107	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	100	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	112	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								

Analytical Results

WT2319485-008

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW2-20

Client sampling date / time: 29-Jun-2023 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	91.4	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	90.2	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	94.7	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	92.3	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-009

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW3-20

Client sampling date / time: 29-Jun-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	5.62	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0052	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 29-Jun-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00042	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0496	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.011	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	106	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00073	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0035	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	48.9	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.00458	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000462	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	1.09	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00070	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000092	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	7.40	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	4.67	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.155	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	7.52	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000888	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	0.00097	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593

Analytical Results

WT2319485-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 29-Jun-2023 13:00

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065

Analytical Results

WT2319485-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 29-Jun-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	76.4	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	81.5	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.2	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	97.8	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	0.029	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	0.030	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	0.013	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	0.034	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.014	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.031	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.017	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	0.028	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	102	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	95.0	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	110	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 29-Jun-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	85.0	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	84.4	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	69.8	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	81.1	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 29-Jun-2023 14:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	7.44	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0015	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00028	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0290	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 29-Jun-2023 14:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	0.0000488	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	63.3	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	0.00092	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00285	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	0.000072	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0023	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	21.8	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.456	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000779	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	0.00238	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	2.63	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00084	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	3.49	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	2.81	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.0886	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	1.85	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	0.000046	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000226	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0147	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 29-Jun-2023 14:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653

Analytical Results

WT2319485-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 29-Jun-2023 14:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.0	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	88.6	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	93.2	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	97.9	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	98.7	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 29-Jun-2023 14:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	83.1	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	90.4	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	89.2	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR,	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	123	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-011

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH214

Client sampling date / time: 29-Jun-2023 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	7.13	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030562
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0086	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	0.00036	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00078	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.0348	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.011	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	0.0000238	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	95.7	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH214
Client sampling date / time: 29-Jun-2023 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Copper, dissolved	7440-50-8	0.00271	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	0.000120	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	47.9	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Manganese, dissolved	7439-96-5	0.00498	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000706	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	0.00091	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	1.57	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00215	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000449	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	4.63	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	4.12	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.107	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	6.01	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	0.000026	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	0.00019	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000266	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	0.00052	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0026	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH214
Client sampling date / time: 29-Jun-2023 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,2-	107-06-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0 OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	<0.40 OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30 OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0 OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	75.0	1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653

Analytical Results

WT2319485-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH214
Client sampling date / time: 29-Jun-2023 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	88.2	1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	94.2	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	98.3	1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.026	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.058	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.032	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	0.013	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	103	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	90.0	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<15.0 RRR	15.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	67.7	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	73.2	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-011

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH214

Client sampling date / time: 29-Jun-2023 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	59.1 RRR	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	102	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2319485-012

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 29-Jun-2023 16:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.08	0.50	mg/L	E235.Cl/WT	04-Jul-2023	05-Jul-2023	1021983
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	10-Jul-2023	10-Jul-2023	1030556
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Arsenic, dissolved	7440-38-2	0.00012	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Barium, dissolved	7440-39-3	0.185	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Boron, dissolved	7440-42-8	0.016	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cadmium, dissolved	7440-43-9	0.0000473	0.0000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Calcium, dissolved	7440-70-2	124	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Copper, dissolved	7440-50-8	0.00059	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lead, dissolved	7439-92-1	0.000051	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Lithium, dissolved	7439-93-2	0.0031	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Magnesium, dissolved	7439-95-4	52.9	0.0050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942

Analytical Results

WT2319485-012

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 29-Jun-2023 16:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Manganese, dissolved	7439-96-5	0.00020	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	04-Jul-2023	04-Jul-2023	1020691
Molybdenum, dissolved	7439-98-7	0.000226	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Potassium, dissolved	7440-09-7	1.57	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Rubidium, dissolved	7440-17-7	0.00110	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Selenium, dissolved	7782-49-2	0.000457	0.000050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silicon, dissolved	7440-21-3	8.20	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sodium, dissolved	7440-23-5	4.32	0.050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Strontium, dissolved	7440-24-6	0.151	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Sulfur, dissolved	7704-34-9	14.2	0.50	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Uranium, dissolved	7440-61-1	0.000910	0.000010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zinc, dissolved	7440-66-6	0.0200	0.0010	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	30-Jun-2023	30-Jun-2023	1018942
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	04-Jul-2023	1020691
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	30-Jun-2023	1018942
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	04-Jul-2023	1020794
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	03-Jul-2023	04-Jul-2023	1020593
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064

Analytical Results

WT2319485-012

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 29-Jun-2023 16:15

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Xylenes, total	1330-20-7	<0.50	OWP,	0.50	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
BTEX, total	----	<1.0	OWP,	1.0	µg/L	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	10-Jul-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	10-Jul-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	05-Jul-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG/WT	-	05-Jul-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	72.2		1.0	%	E601.SG/WT	05-Jul-2023	10-Jul-2023	1022653
Dichlorotoluene, 3,4-	95-75-0	84.1		1.0	%	E581.F1-L/WT	04-Jul-2023	04-Jul-2023	1022065
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	94.5		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Difluorobenzene, 1,4-	540-36-3	97.4		1.0	%	E611D/WT	04-Jul-2023	04-Jul-2023	1022064
Polycyclic Aromatic Hydrocarbons									

Analytical Results

WT2319485-012

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 29-Jun-2023 16:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1-	90-12-0	0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 1+2-	----	0.023	0.015	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Methylnaphthalene, 2-	91-57-6	0.013	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	103	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Naphthalene-d8	1146-65-2	89.4	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A/WT	05-Jul-2023	12-Jul-2023	1022654
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.6	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Nitrobenzene-d5	4165-60-0	81.9	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Terphenyl-d14, p-	1718-51-0	89.6	1.0	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Analytical Results

WT2319485-012

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 29-Jun-2023 16:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Dinitrophenol, 2,4-	51-28-5	<2.0 RRR,	2.0	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Jul-2023	12-Jul-2023	1032110
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	166 SUR-ND,	0.20	%	E655A/WT	11-Jul-2023	12-Jul-2023	1032110

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

ALS Canada Ltd.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2319485**	Page	: 1 of 27
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 30-Jun-2023 09:20
PO	: 73522487	Issue Date	: 14-Jul-2023 13:03
C-O-C number	: ----		
Sampler	: T.HAMILTON		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Method Blank value outliers occur - please see following pages for full details.
- Test sample Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Polycyclic Aromatic Hydrocarbons	QC-MRG2-1022653 001	----	Dibenz(a,h)anthracene	53-70-3	E641A	0.0052 µg/L MB-LOR	0.005 µg/L	Blank result exceeds permitted value

Result Qualifiers

Qualifier	*Description*
MB-LOR	*Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.*

Regular Sample Surrogates

Sub-Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Result	Limits	Comment
Samples Submitted							
Semi-Volatile Organics Surrogates	WT2319485-011	BH214	Terphenyl-d14, p-	1718-51-0	59.1 %	60.0-140 %	Recovery less than lower data quality objective
Phenolics Surrogates	WT2319485-012	BH219	Tribromophenol, 2,4,6-	118-79-6	166 %	50.0-140 %	Recovery greater than upper data quality objective

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH213	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH214	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH219	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) FB1	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW2-20	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW3-20	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW5-23	E567	29-Jun-2023	03-Jul-2023	28 days	4 days	✓	04-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AG WELL	E567	28-Jun-2023	03-Jul-2023	28 days	5 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) APP WELL	E567	28-Jun-2023	03-Jul-2023	28 days	5 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW1-20	E567	28-Jun-2023	03-Jul-2023	28 days	5 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW4-23	E567	29-Jun-2023	03-Jul-2023	28 days	5 days	✓	04-Jul-2023	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW4-23X	E567	29-Jun-2023	03-Jul-2023	28 days	5 days	✓	04-Jul-2023	40 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH213	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH214	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH219	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] FB1	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW2-20	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW3-20	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW4-23	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW4-23X	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW5-23	E235.Cl	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	05-Jul-2023	23 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
AG WELL	E235.Cl	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	05-Jul-2023	22 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
APP WELL	E235.Cl	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	05-Jul-2023	22 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW1-20	E235.Cl	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	05-Jul-2023	22 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	29-Jun-2023	09-Jul-2023	14 days	10 days	✓	11-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH214	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB1	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW2-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23X	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
BH213	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
BH214	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
BH219	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
FB1	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
MW2-20	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
MW3-20	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide)										
MW4-23	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) MW4-23X	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) MW5-23	E333	29-Jun-2023	10-Jul-2023	14 days	11 days	✓	10-Jul-2023	3 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) AG WELL	E333	28-Jun-2023	10-Jul-2023	14 days	12 days	✓	10-Jul-2023	2 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) APP WELL	E333	28-Jun-2023	10-Jul-2023	14 days	12 days	✓	10-Jul-2023	2 days	0 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) MW1-20	E333	28-Jun-2023	10-Jul-2023	14 days	12 days	✓	10-Jul-2023	2 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH213	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH214	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH219	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) FB1	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW2-20	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW3-20	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW4-23	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW4-23X	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW5-23	E509	29-Jun-2023	04-Jul-2023	28 days	5 days	✓	04-Jul-2023	23 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
AG WELL	E509	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	04-Jul-2023	22 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
APP WELL	E509	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	04-Jul-2023	22 days	0 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW1-20	E509	28-Jun-2023	04-Jul-2023	28 days	6 days	✓	04-Jul-2023	22 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
BH213	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH214	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH219	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) FB1	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW2-20	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW3-20	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW4-23	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW4-23X	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW5-23	E421	29-Jun-2023	30-Jun-2023	180 days	1 days	✓	30-Jun-2023	179 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) AG WELL	E421	28-Jun-2023	30-Jun-2023	180 days	2 days	✓	30-Jun-2023	178 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
APP WELL	E421	28-Jun-2023	30-Jun-2023	180 days	2 days	✓	30-Jun-2023	178 days	0 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW1-20	E421	28-Jun-2023	30-Jun-2023	180 days	2 days	✓	30-Jun-2023	178 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH213	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH214	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH219	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
FB1	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MW2-20	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MW3-20	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MW4-23	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW4-23X	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW5-23	E581.F1-L	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) AG WELL	E581.F1-L	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) APP WELL	E581.F1-L	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW1-20	E581.F1-L	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) BH213	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) BH214	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) BH219	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) FB1	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW2-20	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW3-20	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23X	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW5-23	E601.SG	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
AG WELL	E601.SG	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
APP WELL	E601.SG	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	10-Jul-2023	40 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW1-20	E601.SG	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	10-Jul-2023	40 days	5 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	29-Jun-2023	09-Jul-2023	14 days	10 days	✓	11-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] AG WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] APP WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW1-20	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH213	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH214	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH219	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] FB1	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW2-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW3-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23X	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	29-Jun-2023	09-Jul-2023	14 days	10 days	✓	11-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW1-20	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH214	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB1	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW2-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW3-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23X	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH213	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH214	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH219	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
FB1	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW2-20	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW3-20	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23X	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW5-23	E641A	29-Jun-2023	05-Jul-2023	14 days	6 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
AG WELL	E641A	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
APP WELL	E641A	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	12-Jul-2023	40 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW1-20	E641A	28-Jun-2023	05-Jul-2023	14 days	7 days	✓	12-Jul-2023	40 days	7 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	29-Jun-2023	09-Jul-2023	14 days	10 days	✓	11-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] AG WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] APP WELL	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW1-20	E655A	28-Jun-2023	09-Jul-2023	14 days	11 days	✓	11-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH213	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH214	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] BH219	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] FB1	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW2-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP] MW3-20	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23X	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	29-Jun-2023	11-Jul-2023	14 days	12 days	✓	12-Jul-2023	40 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH213	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH214	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH219	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
FB1	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW2-20	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW3-20	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW4-23	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW4-23X	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW5-23	E532A	29-Jun-2023	----	----	----		04-Jul-2023	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AG WELL	E532A	28-Jun-2023	----	----	----		04-Jul-2023	28 days	6 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
APP WELL	E532A	28-Jun-2023	----	----	----		04-Jul-2023	28 days	6 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW1-20	E532A	28-Jun-2023	----	----	----		04-Jul-2023	28 days	6 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH213	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH214	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH219	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
FB1	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW2-20	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW3-20	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW4-23	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW4-23X	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW5-23	E611D	29-Jun-2023	04-Jul-2023	14 days	5 days	✓	04-Jul-2023	9 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) AG WELL	E611D	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) APP WELL	E611D	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW1-20	E611D	28-Jun-2023	04-Jul-2023	14 days	6 days	✓	04-Jul-2023	8 days	0 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1020703	2	24	8.3	5.0	✓
Chloride in Water by IC	E235.Cl	1021983	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1020794	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1020691	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1018942	1	19	5.2	5.0	✓
Total Cyanide	E333	1030556	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1020702	3	57	5.2	5.0	✓
Laboratory Control Samples (LCS)							
BNA (ON 625-511 list) by GC-MS	E655A	1030246	2	17	11.7	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1020703	2	24	8.3	5.0	✓
Chloride in Water by IC	E235.Cl	1021983	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1020794	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1020691	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1018942	1	19	5.2	5.0	✓
Oil & Grease by Gravimetry	E567	1020507	2	20	10.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	1022654	1	12	8.3	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1022653	1	20	5.0	5.0	✓
Total Cyanide	E333	1030556	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1020702	3	57	5.2	5.0	✓
Method Blanks (MB)							
BNA (ON 625-511 list) by GC-MS	E655A	1030246	2	17	11.7	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1020703	2	24	8.3	5.0	✓
Chloride in Water by IC	E235.Cl	1021983	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1020794	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1020691	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1018942	1	19	5.2	5.0	✓
Oil & Grease by Gravimetry	E567	1020507	2	20	10.0	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	1022654	1	12	8.3	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1022653	1	20	5.0	5.0	✓
Total Cyanide	E333	1030556	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1020702	3	57	5.2	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1020703	2	24	8.3	5.0	✓
Chloride in Water by IC	E235.Cl	1021983	1	18	5.5	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1020794	1	20	5.0	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Mercury in Water by CVAAS	E509	1020691	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1018942	1	19	5.2	5.0	✓
Total Cyanide	E333	1030556	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1020702	3	57	5.2	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Total Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A ALS Environmental - Waterloo	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
Oil & Grease by Gravimetry	E567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hexane LVI GC-MS	E641A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
BNA (ON 625-511 list) by GC-MS	E655A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS.
F1-BTEX	EC580 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
BNA Extraction	EP655 ALS Environmental - Waterloo	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.

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QUALITY CONTROL REPORT

Work Order	: **WT2319485**	Page	: 1 of 30
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 30-Jun-2023 09:20
PO	: 73522487	Date Analysis Commenced	: 30-Jun-2023
C-O-C number	: ----	Issue Date	: 14-Jul-2023 13:02
Sampler	: T.HAMILTON 519 725 3313		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Manuel TavaraTello	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 1021983)											
WT2319399-001	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	108	108	0.177%	20%	----
Cyanides (QC Lot: 1030556)											
CG2308585-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.0050	mg/L	<0.0050	<0.0050	0	Diff <2x LOR	----
Cyanides (QC Lot: 1030562)											
WT2319485-001	AG WELL	Cyanide, strong acid dissociable (Total)	----	E333	0.0050	mg/L	<0.0050	<0.0050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1018942)											
WT2319396-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0032	0.0028	0.0004	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.10 µg/L	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.22 µg/L	0.00021	0.000005	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	143 µg/L	0.149	3.87%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.020 µg/L	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	25 µg/L	0.027	0.001	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	0.0122 µg/L	0.0000134	0.0000012	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	128	130	2.20%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	0.58 µg/L	0.00056	0.00003	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	0.11 µg/L	0.00011	0.000005	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	1.30 µg/L	0.00136	0.00006	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.050 µg/L	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0154	0.0160	3.29%	20%	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	37.8	37.8	0.0641%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00854	0.00897	4.90%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	1.79 µg/L	0.00182	1.83%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.61 µg/L	0.00061	0.000004	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	1.88	1.93	2.57%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00099	0.00100	0.00001	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1018942) - continued											
WT2319396-001	Anonymous	Selenium, dissolved	7782-49-2	E421	0.000500	mg/L	<0.500 µg/L	0.000587	0.000087	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	8.36	8.76	4.63%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.010 µg/L	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	103000 µg/L	103	0.263%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.593	0.585	1.32%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	13.1	13.0	0.401%	20%	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	0.011 µg/L	0.000011	0.0000001	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	0.00021	0.00021	0.000004	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	2.32 µg/L	0.00234	1.21%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	1.8 µg/L	0.0018	0.00004	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1020691)											
WT2319396-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1020794)											
CG2308701-011	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	0.00232	0.00233	0.000009	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1020702)											
WT2319329-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	25	23	2	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1020702) - continued											
WT2319329-001	Anonymous	Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1022064)											
WT2319439-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1022064) - continued											
WT2319439-001	Anonymous	Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1023702)											
WT2319782-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	2.90	2.74	0.16	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	0.99	0.98	0.01	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	4.06	3.94	3.00%	30%	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	58.6	57.4	2.14%	30%	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1023702) - continued											
WT2319782-001	Anonymous	Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	4.36	4.25	2.56%	30%	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1020703)											
WT2319329-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1022065)											
WT2319439-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients (QCLot: 1021983)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 1030556)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Cyanides (QCLot: 1030562)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 1018942)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1018942) - continued						
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 1020691)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1020794)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1020507)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 1020593)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Volatile Organic Compounds (QCLot: 1020702)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1020702) - continued						
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Volatile Organic Compounds (QCLot: 1022064)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1022064) - continued						
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Volatile Organic Compounds (QCLot: 1023702)						
Acetone	67-64-1	E611D	20	µg/L	<20	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued						
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued						
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1020703)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 1022065)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 1022653)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1022654)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	# 0.0052	MB-LOR
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Phthalate Esters (QCLot: 1030246)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Phthalate Esters (QCLot: 1032110)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Semi-Volatile Organics (QCLot: 1030246)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1032110)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 1030246)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Chlorinated Phenolics (QCLot: 1032110)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Non-Chlorinated Phenolics (QCLot: 1030246)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Non-Chlorinated Phenolics (QCLot: 1030246) - continued						
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1032110)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----

Qualifiers

Qualifier	Description
MB-LOR	*Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.*

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1021983)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	98.6	90.0	110	----
Cyanides (QCLot: 1030556)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	85.7	80.0	120	----
Cyanides (QCLot: 1030562)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	81.6	80.0	120	----
Dissolved Metals (QCLot: 1018942)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	96.2	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	97.7	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	107	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	102	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	101	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	101	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	96.4	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	103	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	102	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.0025 mg/L	98.4	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	100	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	100	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	100	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	99.3	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	103	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.0125 mg/L	102	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	102	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.0125 mg/L	102	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	99.4	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	100	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	108	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	96.7	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	106	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	106	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	100	60.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 1018942) - continued									
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	93.9	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	105	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.0125 mg/L	98.8	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	105	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	100	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	105	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	101	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	101	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.0125 mg/L	99.8	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	102	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	104	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	100	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	101	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	96.9	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	97.0	80.0	120	----
Speciated Metals (QCLot: 1020794)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	95.8	80.0	120	----
Aggregate Organics (QCLot: 1020507)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	87.1	70.0	130	----
Aggregate Organics (QCLot: 1020593)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	99.3	70.0	130	----
Volatile Organic Compounds (QCLot: 1020702)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	92.8	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	93.7	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	113	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	121	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	95.6	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	87.9	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1020702) - continued									
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	103	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	92.1	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	112	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	101	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	99.1	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	97.6	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	94.5	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	112	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	120	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	76.5	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	77.5	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	93.3	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	120	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	118	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	91.1	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	116	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	120	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	109	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	113	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	108	70.0	130	----
Volatile Organic Compounds (QCLot: 1022064)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	111	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	97.8	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	111	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	108	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1022064) - continued									
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	96.8	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	103	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	95.5	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	112	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	107	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	101	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	115	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	105	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	93.0	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	99.1	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	109	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	103	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	110	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	109	70.0	130	----
Volatile Organic Compounds (QCLot: 1023702)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	99.5	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued									
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	99.7	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	95.5	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	108	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	107	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	91.6	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	90.6	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	98.7	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	93.2	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	98.1	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	98.9	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	93.7	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	91.9	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	115	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	82.2	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	83.7	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	98.8	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	96.5	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	92.9	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	107	60.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued									
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	108	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	109	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	105	70.0	130	----
Hydrocarbons (QCLot: 1020703)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	98.0	80.0	120	----
Hydrocarbons (QCLot: 1022065)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	102	80.0	120	----
Hydrocarbons (QCLot: 1022653)									
F2 (C10-C16)	----	E601.SG	100	µg/L	3879.32 µg/L	80.2	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	7754.95 µg/L	85.2	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4176.89 µg/L	85.9	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1022654)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	92.5	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	95.8	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	96.4	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	88.2	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	101	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	107	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	94.2	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	99.3	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	95.4	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	89.4	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	100	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	93.5	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	95.6	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	87.4	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	84.6	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	88.4	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	90.1	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	101	50.0	140	----
Phthalate Esters (QCLot: 1030246)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	123	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	91.6	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Phthalate Esters (QCLot: 1030246) - continued									
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	92.1	50.0	140	----
Phthalate Esters (QCLot: 1032110)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	117	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	101	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	91.8	50.0	140	----
Semi-Volatile Organics (QCLot: 1030246)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	93.2	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	83.1	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	86.7	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	40.8	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	41.1	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	99.1	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	95.6	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	90.5	50.0	140	----
Semi-Volatile Organics (QCLot: 1032110)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	87.6	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	93.2	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	96.7	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	38.0	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	38.1	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	122	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	111	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	75.7	50.0	140	----
Chlorinated Phenolics (QCLot: 1030246)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	81.3	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	91.3	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	95.2	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	102	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	95.5	50.0	140	----
Chlorinated Phenolics (QCLot: 1032110)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	86.5	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	88.1	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	102	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	96.0	50.0	140	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Chlorinated Phenolics (QCLot: 1032110) - continued									
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	87.3	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1030246)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	83.4	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	94.9	50.0	140	----
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	108	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1032110)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	96.9	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	127	50.0	140	----
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	104	50.0	140	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1021983)										
WT2319399-001	Anonymous	Chloride	16887-00-6	E235.Cl	ND mg/L	100 mg/L	ND	75.0	125	----
Cyanides (QCLot: 1030556)										
CG2308585-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.220 mg/L	0.25 mg/L	88.1	75.0	125	----
Cyanides (QCLot: 1030562)										
WT2319485-001	AG WELL	Cyanide, strong acid dissociable (Total)	----	E333	0.237 mg/L	0.25 mg/L	94.8	75.0	125	----
Dissolved Metals (QCLot: 1018942)										
WT2319396-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0951 mg/L	0.1 mg/L	95.1	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0492 mg/L	0.05 mg/L	98.3	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0629 mg/L	0.05 mg/L	126	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.00527 mg/L	0.005 mg/L	105	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0445 mg/L	0.05 mg/L	89.0	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.049 mg/L	0.05 mg/L	97.4	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00503 mg/L	0.005 mg/L	101	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00250 mg/L	0.0025 mg/L	100	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0125 mg/L	0.0125 mg/L	100	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0122 mg/L	0.0125 mg/L	97.2	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0116 mg/L	0.0125 mg/L	93.1	70.0	130	----
		Iron, dissolved	7439-89-6	E421	0.048 mg/L	0.05 mg/L	96.2	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0242 mg/L	0.025 mg/L	96.9	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.0118 mg/L	0.0125 mg/L	94.6	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0127 mg/L	0.0125 mg/L	102	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0234 mg/L	0.025 mg/L	93.8	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	0.594 mg/L	0.5 mg/L	119	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	2.57 mg/L	2.5 mg/L	103	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.00518 mg/L	0.005 mg/L	104	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0550 mg/L	0.05 mg/L	110	70.0	130	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 1018942) - continued										
WT2319396-002	Anonymous	Silicon, dissolved	7440-21-3	E421	ND mg/L	0.5 mg/L	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00445 mg/L	0.005 mg/L	89.1	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.00568 mg/L	0.005 mg/L	114	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0498 mg/L	0.05 mg/L	99.6	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.00449 mg/L	0.005 mg/L	89.8	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0249 mg/L	0.025 mg/L	99.4	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0126 mg/L	0.0125 mg/L	101	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.00500 mg/L	0.005 mg/L	99.9	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	0.00025 mg/L	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0256 mg/L	0.025 mg/L	102	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.0236 mg/L	0.025 mg/L	94.6	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.00486 mg/L	0.005 mg/L	97.1	70.0	130	----
Dissolved Metals (QCLot: 1020691)										
WT2319396-002	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000898 mg/L	0.0001 mg/L	89.8	70.0	130	----
Speciated Metals (QCLot: 1020794)										
CG2308701-011	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0397 mg/L	0.04 mg/L	99.3	70.0	130	----
Volatile Organic Compounds (QCLot: 1020702)										
WT2319329-001	Anonymous	Acetone	67-64-1	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Benzene	71-43-2	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Bromoform	75-25-2	E611D	94.3 µg/L	100 µg/L	94.3	60.0	140	----
		Bromomethane	74-83-9	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	108 µg/L	100 µg/L	108	60.0	140	----
		Chlorobenzene	108-90-7	E611D	100.0 µg/L	100 µg/L	100.0	60.0	140	----
		Chloroform	67-66-3	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	95.3 µg/L	100 µg/L	95.3	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	91.8 µg/L	100 µg/L	91.8	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	99.8 µg/L	100 µg/L	99.8	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	81.4 µg/L	100 µg/L	81.4	60.0	140	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1020702) - continued										
WT2319329-001	Anonymous	Dichloroethane, 1,1-	75-34-3	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	96.2 µg/L	100 µg/L	96.2	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	99.3 µg/L	100 µg/L	99.3	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	99.4 µg/L	100 µg/L	99.4	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Dichloromethane	75-09-2	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	95.0 µg/L	100 µg/L	95.0	60.0	140	----
		Ethylbenzene	100-41-4	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Hexane, n-	110-54-3	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	92 µg/L	100 µg/L	91.5	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	88 µg/L	100 µg/L	87.9	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Styrene	100-42-5	E611D	98.3 µg/L	100 µg/L	98.3	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	95.4 µg/L	100 µg/L	95.4	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Toluene	108-88-3	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	93.6 µg/L	100 µg/L	93.6	60.0	140	----
		Trichloroethylene	79-01-6	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Vinyl chloride	75-01-4	E611D	93.2 µg/L	100 µg/L	93.2	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	204 µg/L	200 µg/L	102	60.0	140	----
		Xylene, o-	95-47-6	E611D	100 µg/L	100 µg/L	100	60.0	140	----
Volatile Organic Compounds (QCLot: 1022064)										
WT2319439-001	Anonymous	Acetone	67-64-1	E611D	116 µg/L	100 µg/L	116	60.0	140	----
		Benzene	71-43-2	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Bromoform	75-25-2	E611D	96.2 µg/L	100 µg/L	96.2	60.0	140	----
		Bromomethane	74-83-9	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	100.0 µg/L	100 µg/L	100.0	60.0	140	----
		Chlorobenzene	108-90-7	E611D	98.0 µg/L	100 µg/L	98.0	60.0	140	----
		Chloroform	67-66-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1022064) - continued										
WT2319439-001	Anonymous	Dibromochloromethane	124-48-1	E611D	95.1 µg/L	100 µg/L	95.1	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	98.3 µg/L	100 µg/L	98.3	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	98.4 µg/L	100 µg/L	98.4	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	80.8 µg/L	100 µg/L	80.8	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	87.2 µg/L	100 µg/L	87.2	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	98.6 µg/L	100 µg/L	98.6	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	98.2 µg/L	100 µg/L	98.2	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichloromethane	75-09-2	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	99.8 µg/L	100 µg/L	99.8	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Ethylbenzene	100-41-4	E611D	98.5 µg/L	100 µg/L	98.5	60.0	140	----
		Hexane, n-	110-54-3	E611D	86.4 µg/L	100 µg/L	86.4	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	97 µg/L	100 µg/L	97.5	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Styrene	100-42-5	E611D	97.0 µg/L	100 µg/L	97.0	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	97.1 µg/L	100 µg/L	97.1	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	110 µg/L	100 µg/L	110	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	93.1 µg/L	100 µg/L	93.1	60.0	140	----
		Toluene	108-88-3	E611D	97.9 µg/L	100 µg/L	97.9	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	97.5 µg/L	100 µg/L	97.5	60.0	140	----
		Trichloroethylene	79-01-6	E611D	96.7 µg/L	100 µg/L	96.7	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	98.5 µg/L	100 µg/L	98.5	60.0	140	----
		Vinyl chloride	75-01-4	E611D	92.3 µg/L	100 µg/L	92.3	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	203 µg/L	200 µg/L	101	60.0	140	----
		Xylene, o-	95-47-6	E611D	102 µg/L	100 µg/L	102	60.0	140	----
Volatile Organic Compounds (QCLot: 1023702)										
WT2319782-001	Anonymous	Acetone	67-64-1	E611D	96 µg/L	100 µg/L	95.6	60.0	140	----
		Benzene	71-43-2	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----

Sub-Matrix: **Water**

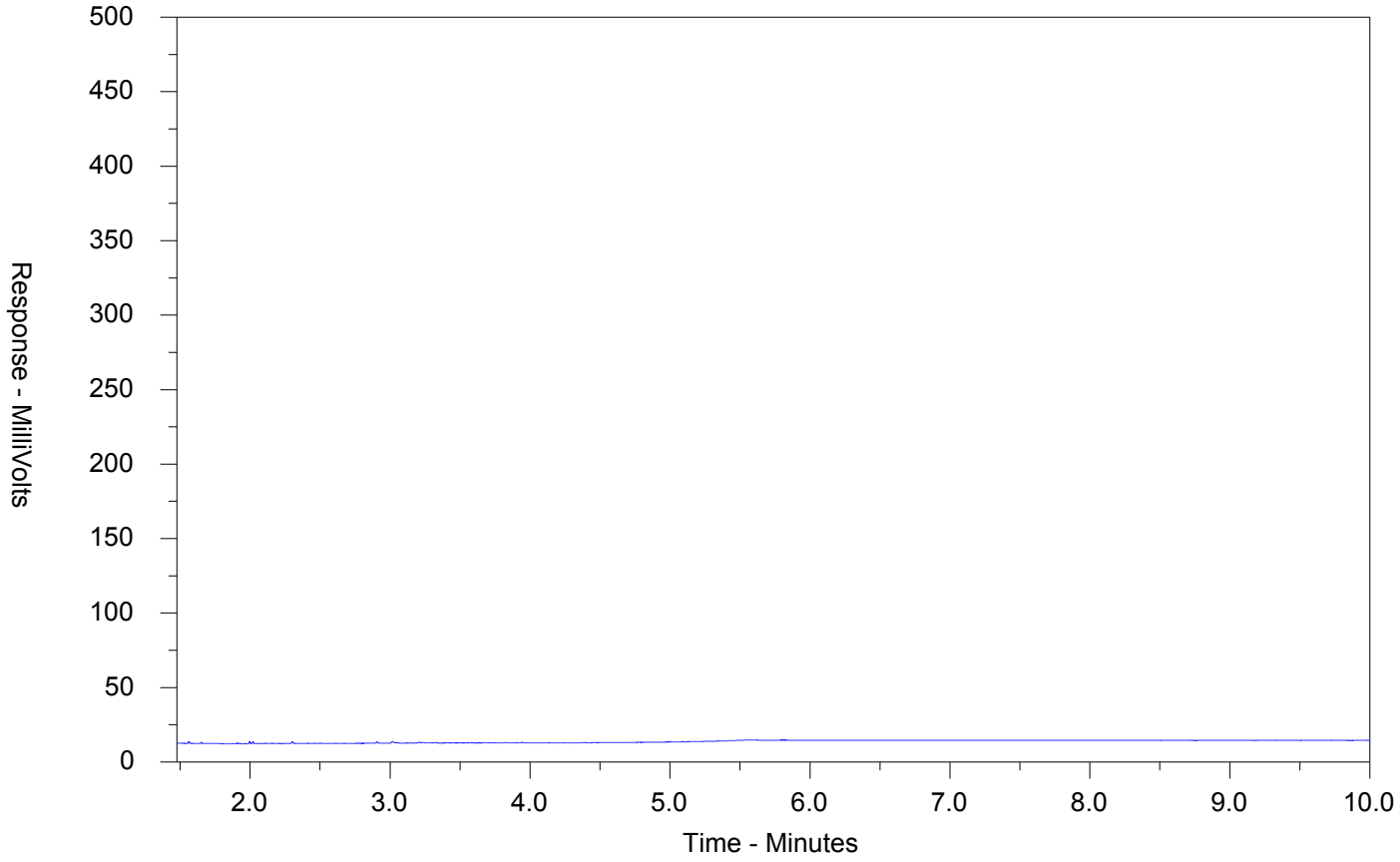
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued										
WT2319782-001	Anonymous	Bromodichloromethane	75-27-4	E611D	95.4 µg/L	100 µg/L	95.4	60.0	140	----
		Bromoform	75-25-2	E611D	91.4 µg/L	100 µg/L	91.4	60.0	140	----
		Bromomethane	74-83-9	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	95.8 µg/L	100 µg/L	95.8	60.0	140	----
		Chlorobenzene	108-90-7	E611D	95.2 µg/L	100 µg/L	95.2	60.0	140	----
		Chloroform	67-66-3	E611D	94.9 µg/L	100 µg/L	94.9	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	87.0 µg/L	100 µg/L	87.0	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	86.8 µg/L	100 µg/L	86.8	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	95.5 µg/L	100 µg/L	95.5	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	95.1 µg/L	100 µg/L	95.1	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	94.2 µg/L	100 µg/L	94.2	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	83.0 µg/L	100 µg/L	83.0	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	97.4 µg/L	100 µg/L	97.4	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	90.3 µg/L	100 µg/L	90.3	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	98.8 µg/L	100 µg/L	98.8	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	95.9 µg/L	100 µg/L	95.9	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		Dichloromethane	75-09-2	E611D	93.0 µg/L	100 µg/L	93.0	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	89.4 µg/L	100 µg/L	89.4	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	86.3 µg/L	100 µg/L	86.3	60.0	140	----
		Ethylbenzene	100-41-4	E611D	94.8 µg/L	100 µg/L	94.8	60.0	140	----
		Hexane, n-	110-54-3	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	79 µg/L	100 µg/L	79.2	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	84 µg/L	100 µg/L	84.0	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140	----
		Styrene	100-42-5	E611D	91.1 µg/L	100 µg/L	91.1	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	93.8 µg/L	100 µg/L	93.8	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	93.6 µg/L	100 µg/L	93.6	60.0	140	----
		Toluene	108-88-3	E611D	92.9 µg/L	100 µg/L	92.9	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	88.8 µg/L	100 µg/L	88.8	60.0	140	----
		Trichloroethylene	79-01-6	E611D	96.9 µg/L	100 µg/L	96.9	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	95.1 µg/L	100 µg/L	95.1	60.0	140	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1023702) - continued										
WT2319782-001	Anonymous	Vinyl chloride	75-01-4	E611D	95.2 µg/L	100 µg/L	95.2	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	193 µg/L	200 µg/L	96.6	60.0	140	----
		Xylene, o-	95-47-6	E611D	95.4 µg/L	100 µg/L	95.4	60.0	140	----
Hydrocarbons (QCLot: 1020703)										
WT2319329-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1760 µg/L	2000 µg/L	87.8	60.0	140	----
Hydrocarbons (QCLot: 1022065)										
WT2319439-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1900 µg/L	2000 µg/L	95.2	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-001-E601.SG
Client Sample ID: AG WELL



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

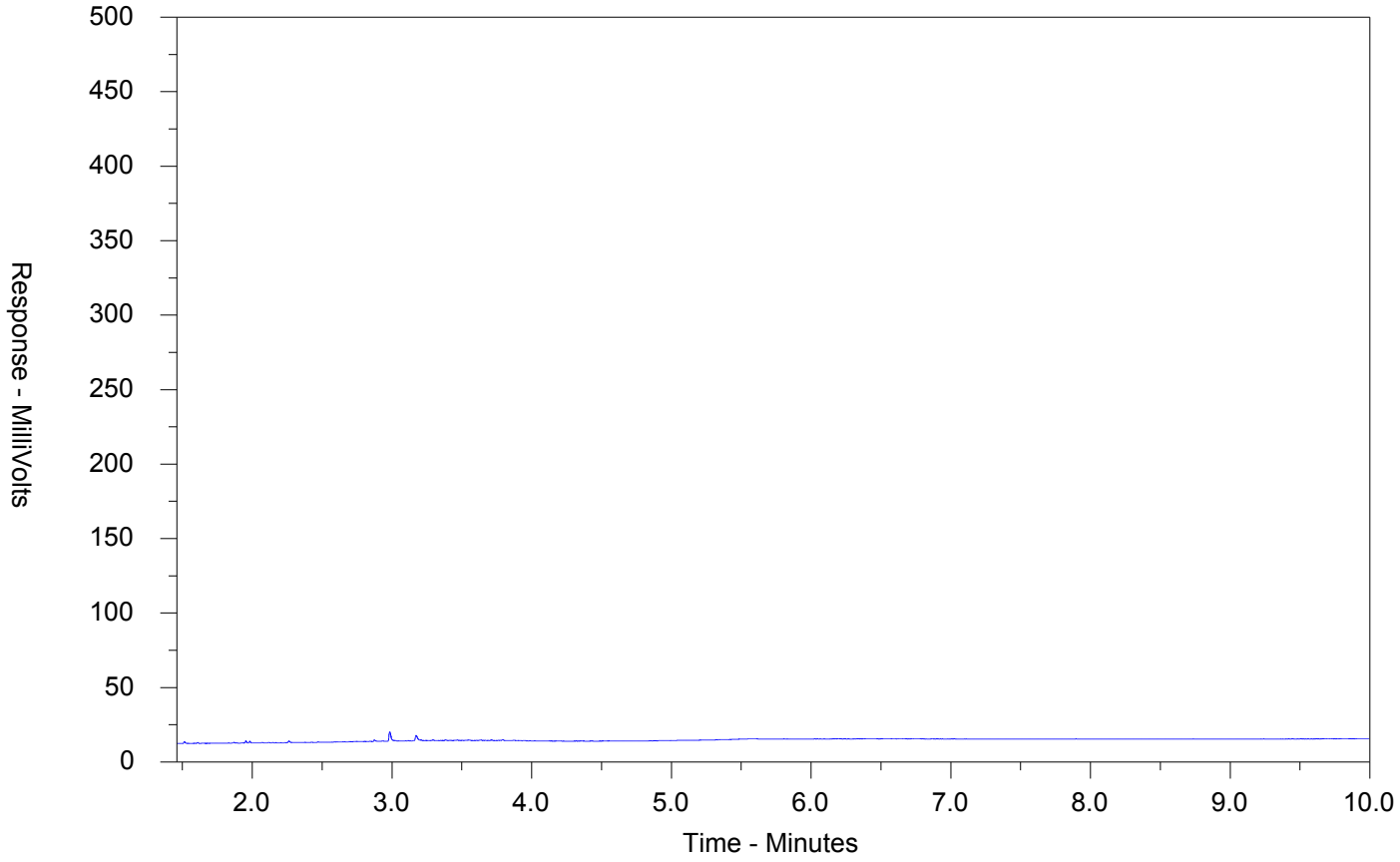
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-002-E601.SG
Client Sample ID: APP WELL



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

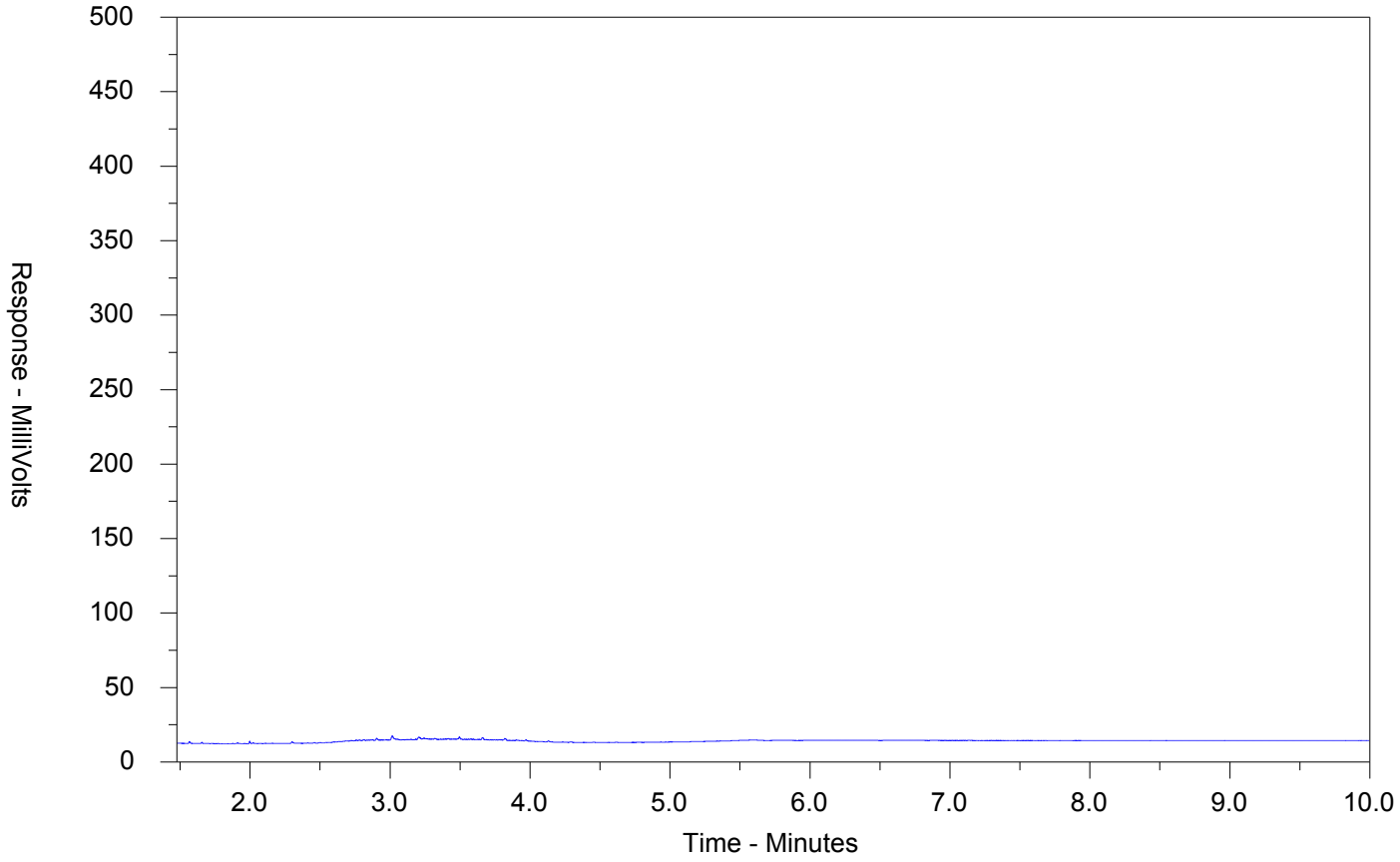
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-003-E601.SG
Client Sample ID: MW1-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

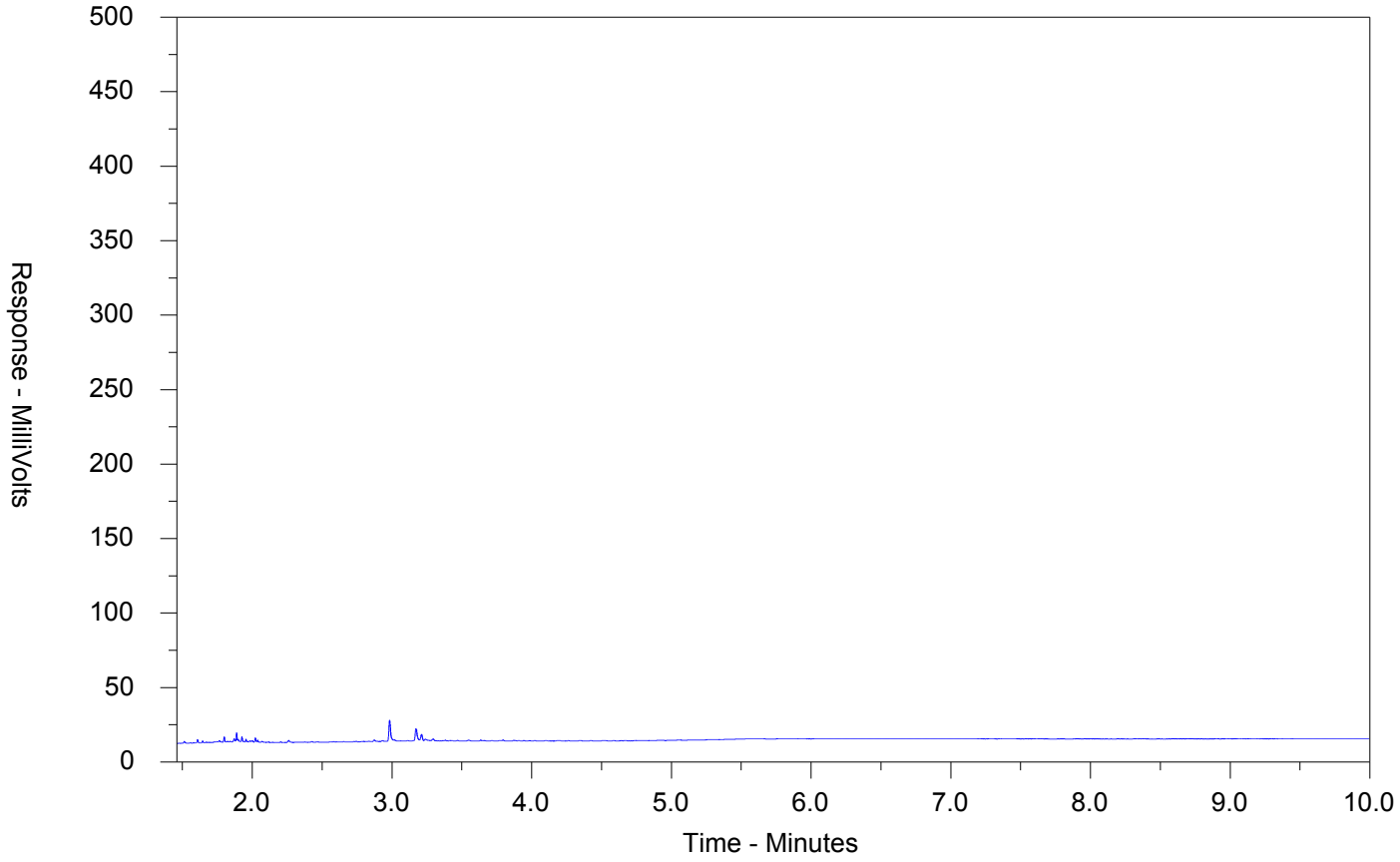
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-004-E601.SG
Client Sample ID: MW4-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

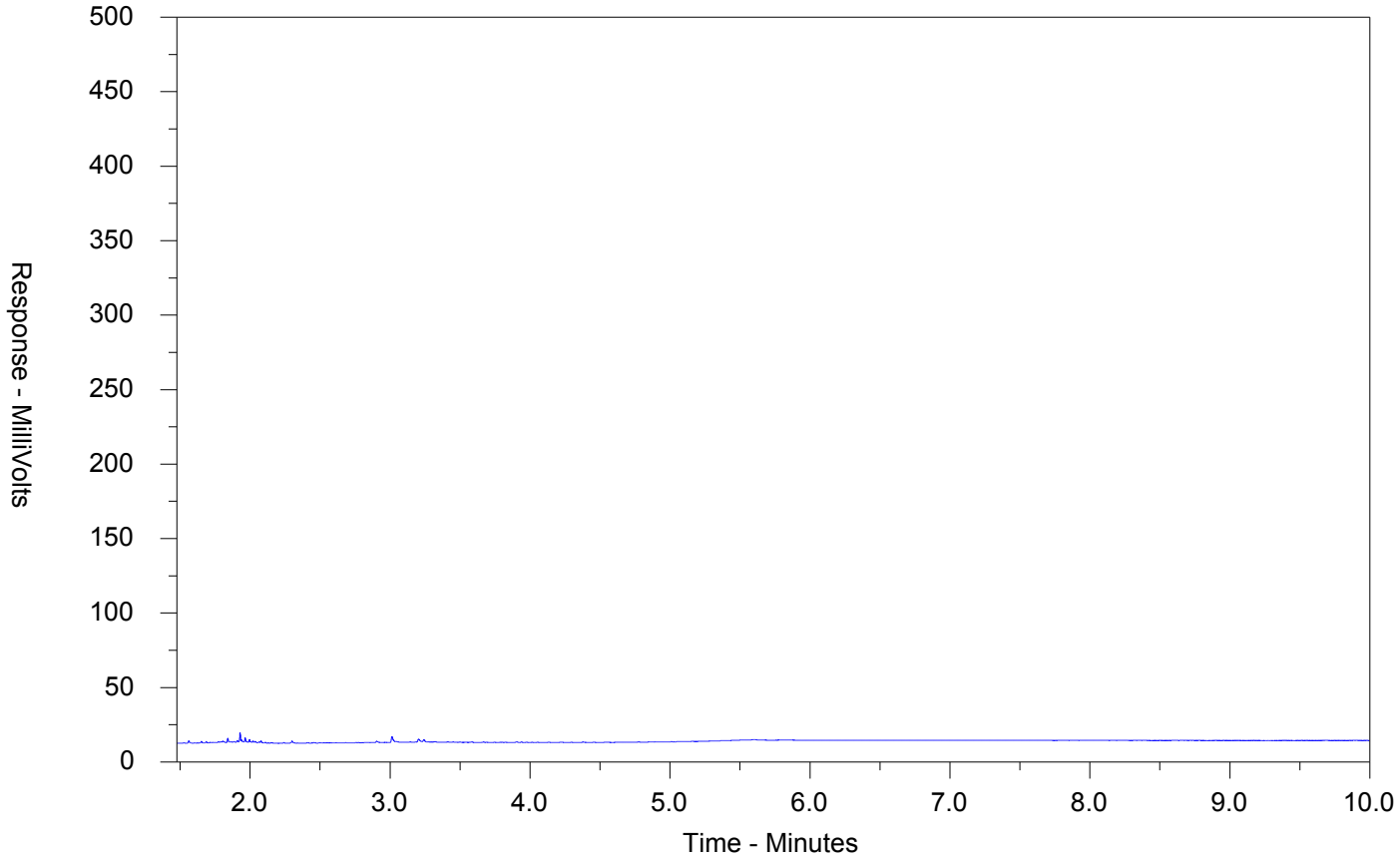
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-005-E601.SG
Client Sample ID: MW4-23X



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

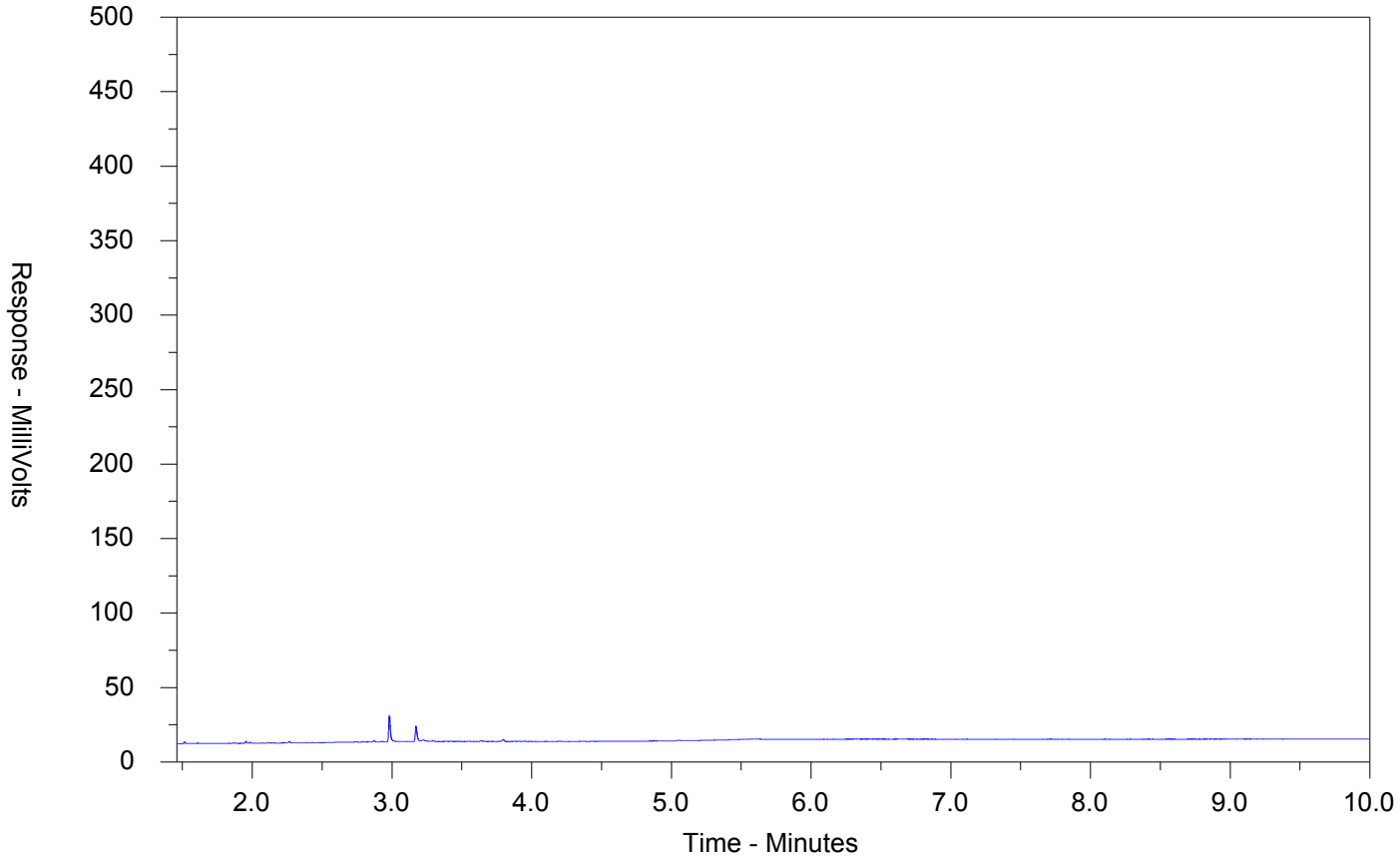
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-006-E601.SG
Client Sample ID: FB1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

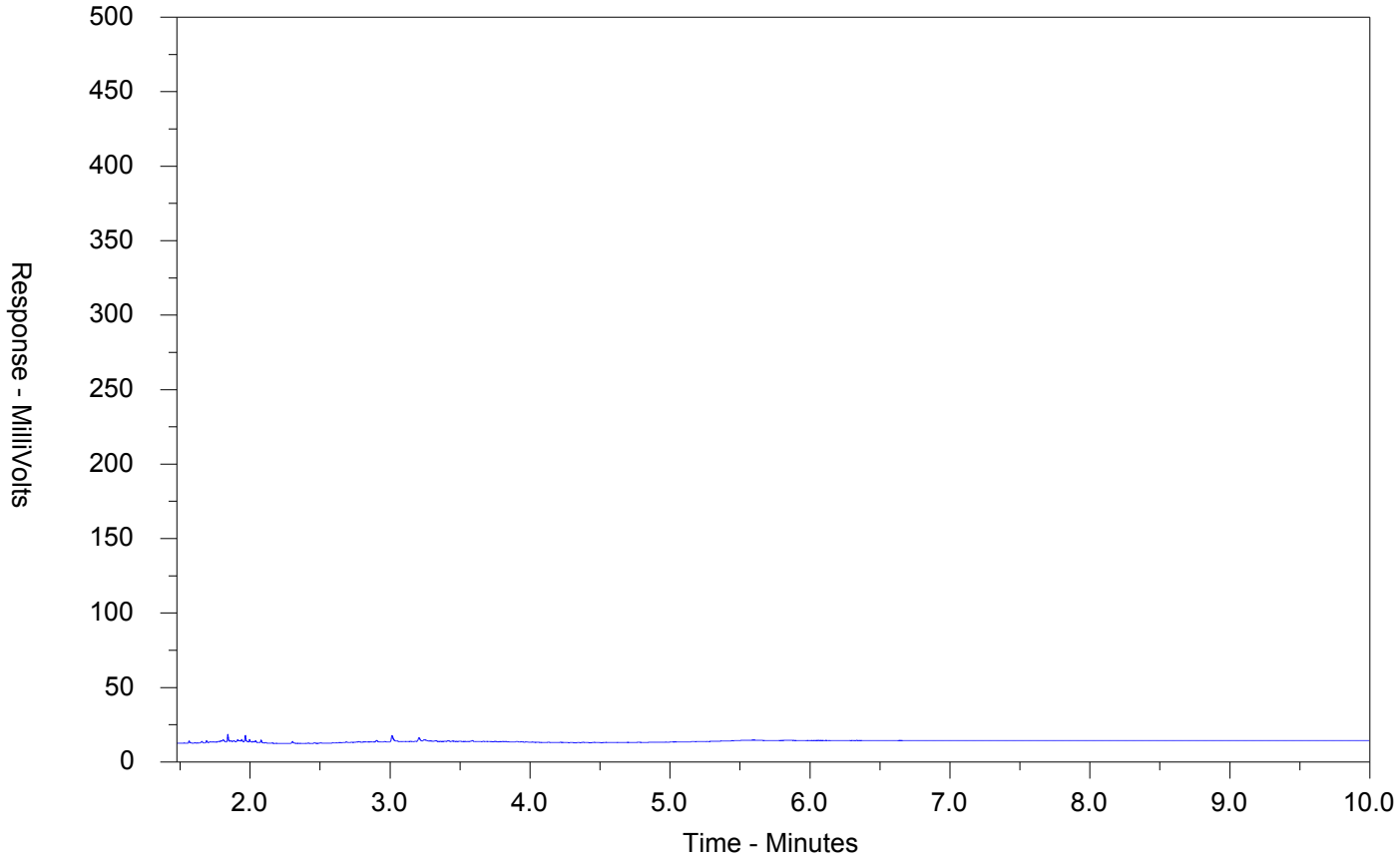
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-007-E601.SG
Client Sample ID: MW5-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

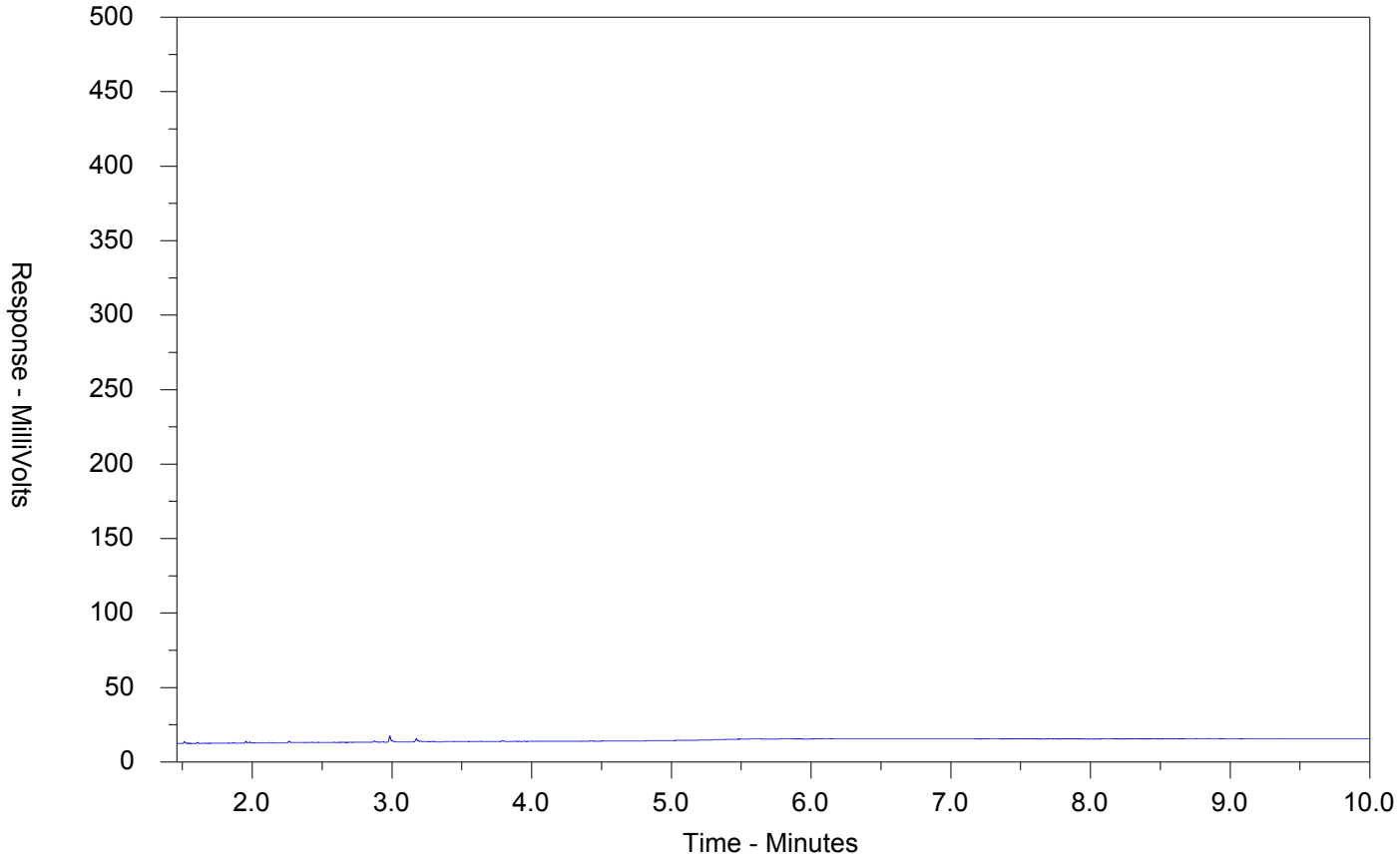
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-008-E601.SG
Client Sample ID: MW2-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

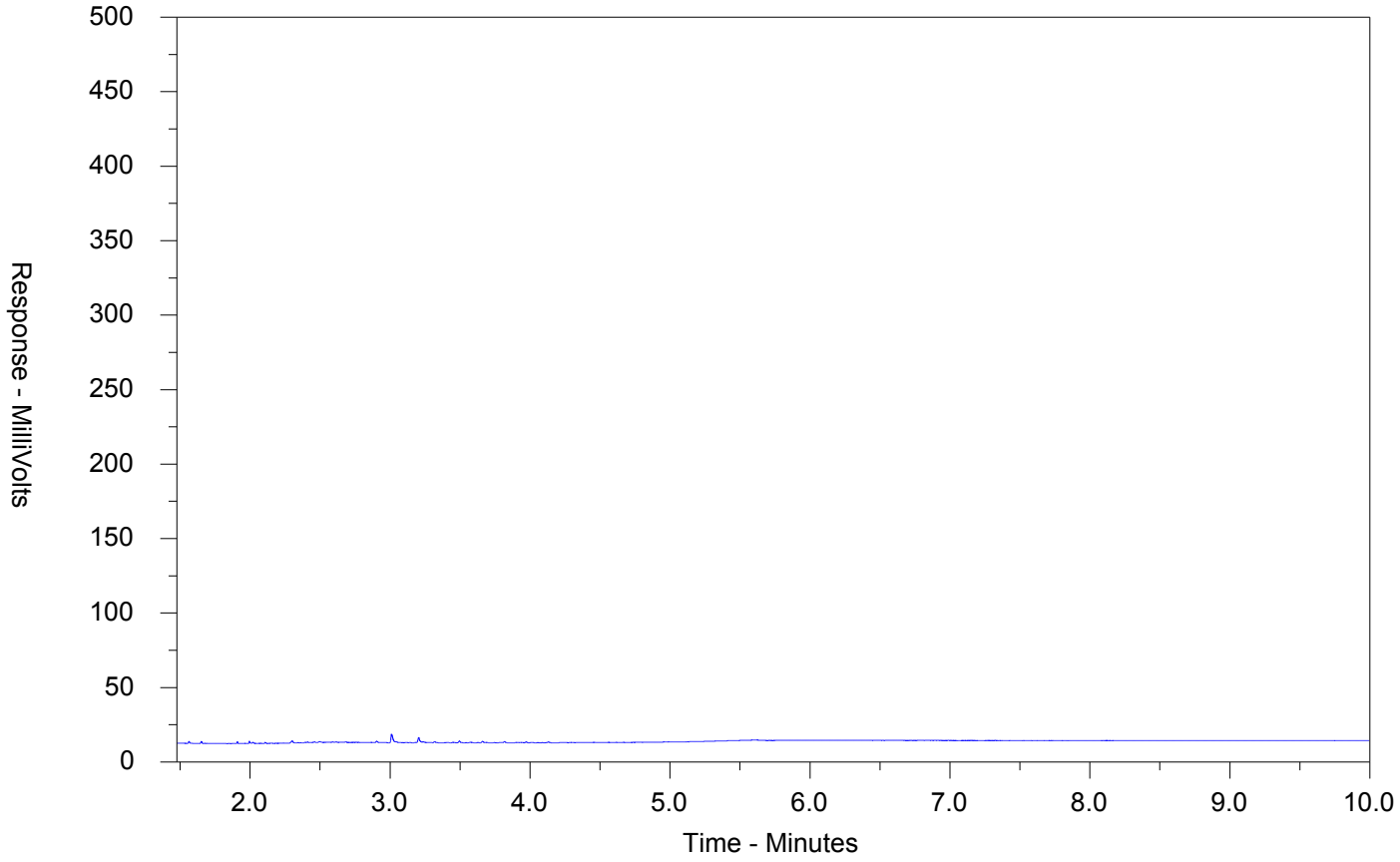
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-009-E601.SG
Client Sample ID: MW3-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

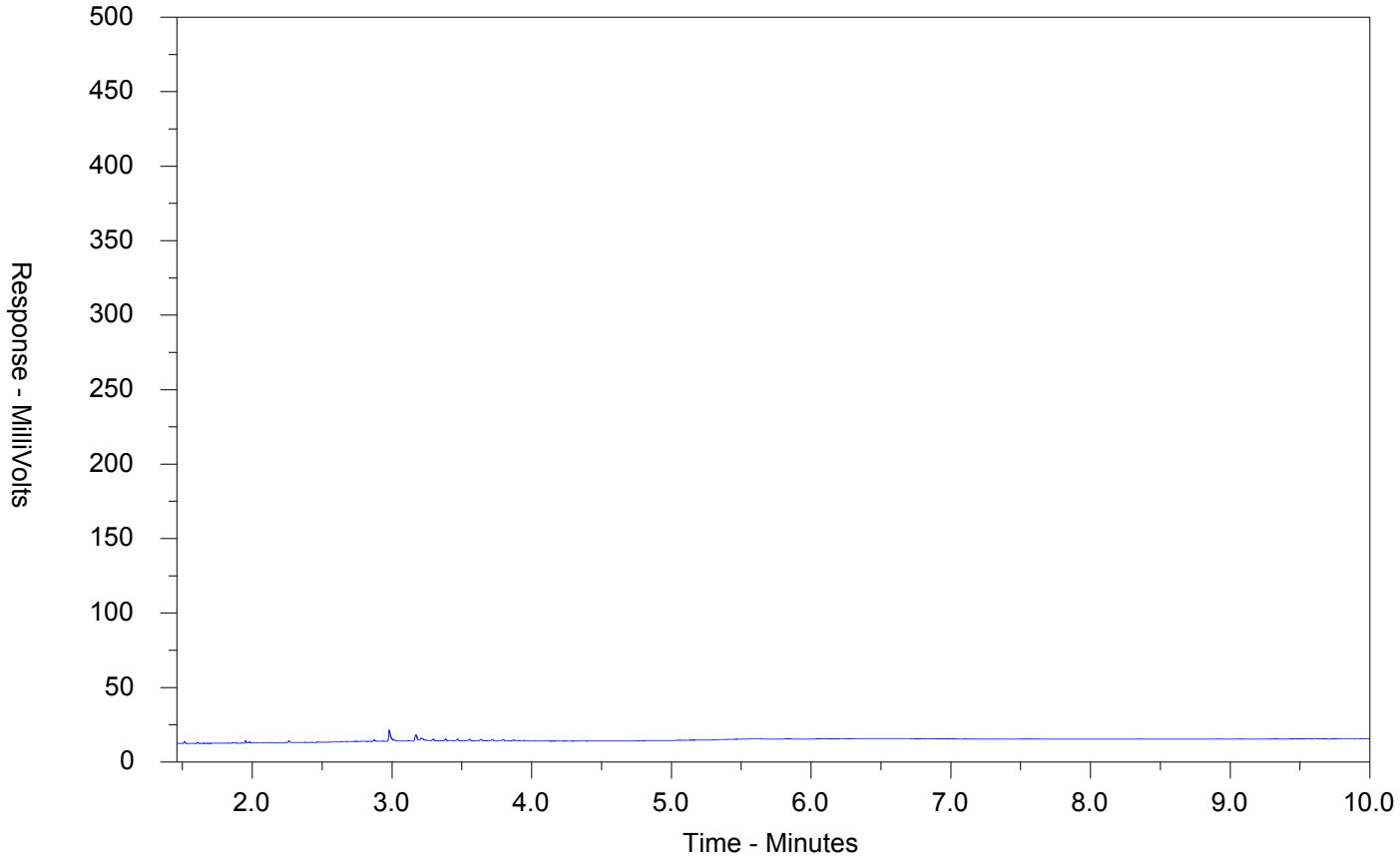
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-010-E601.SG
Client Sample ID: BH213



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

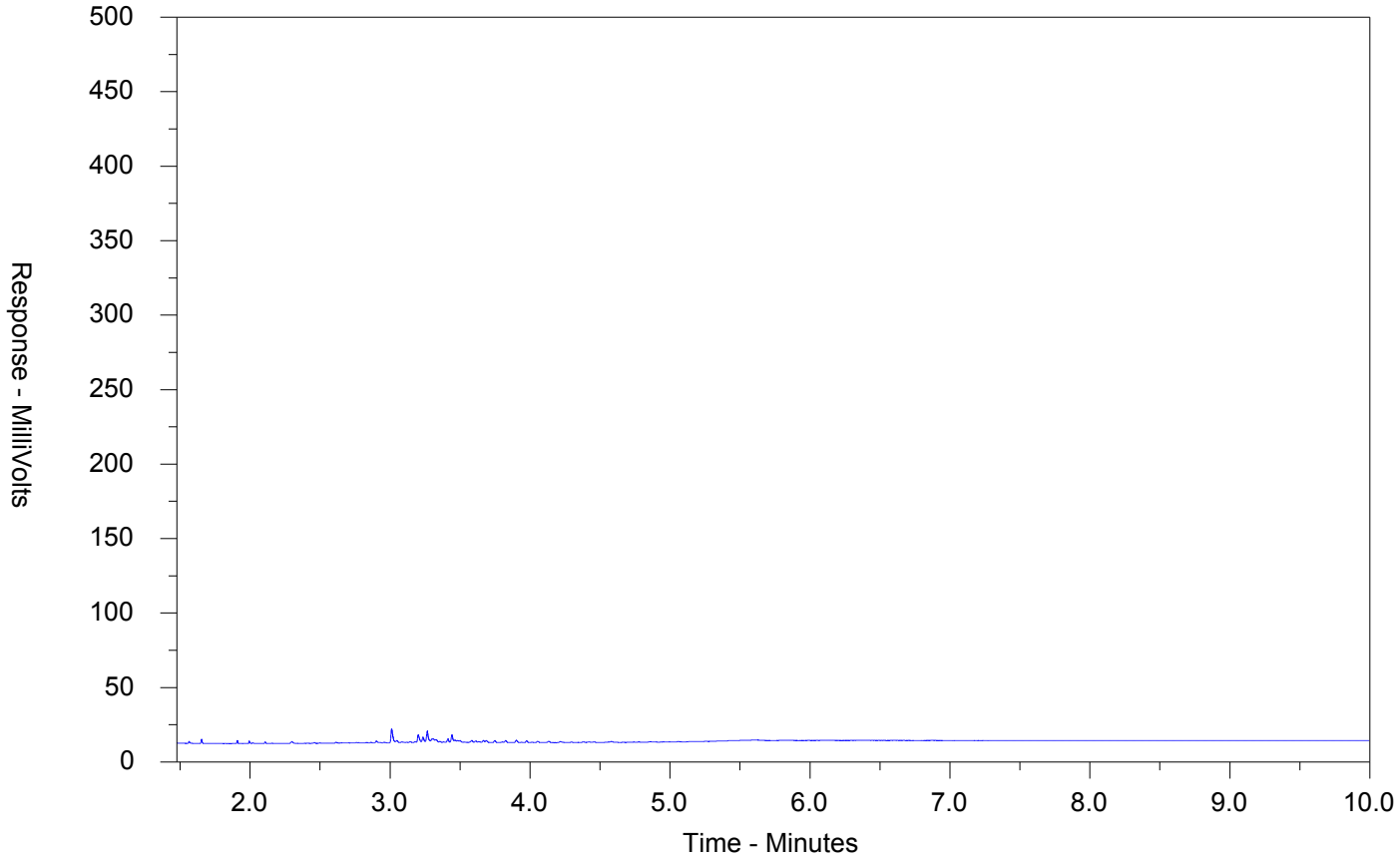
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-011-E601.SG
Client Sample ID: BH214



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

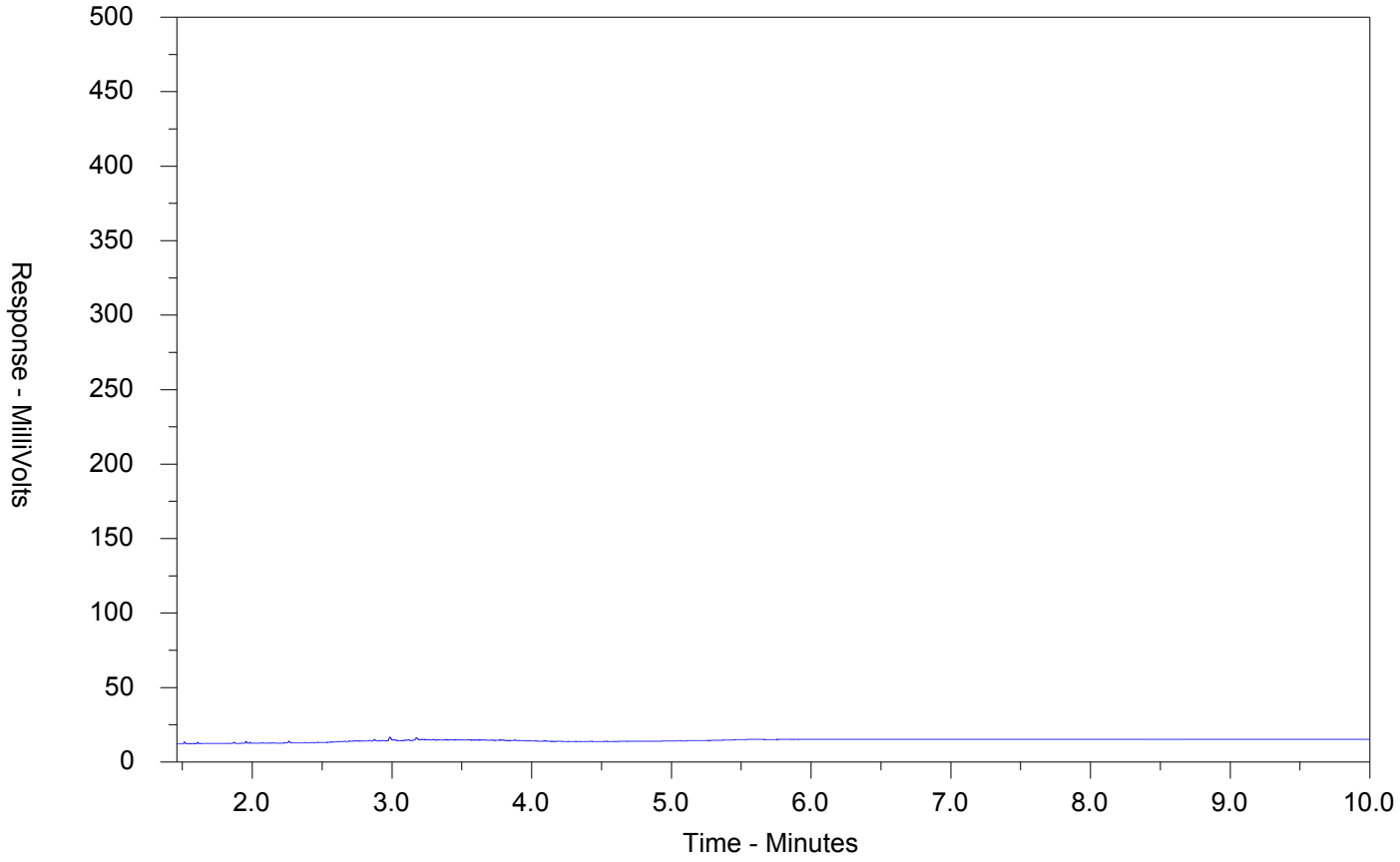
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2319485-012-E601.SG
Client Sample ID: BH219



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

US-306/307 VW-274 GLC-219
OGG-691/692 SC-384
OR-839 CN-180
MM-230

ALS www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Canada Toll Free: 1 800 668 9878

Page

Environmental Division Waterloo
Work Order Reference
WT2319485

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax pascal.renella@ghd.com
Email 2 See SSOW/PO
Email 3

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax accountspayableCDN@ghd.com
Email 2

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Add fees may apply to rush resuests on weekends, statutory holidays and non routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information

ALS Account # / Quote #:	GHDL100 / WT2022GHDL1000018
Job #:	11210029
PO / AFE:	73522487
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2319485
ALS Contact: Rick H
Sampler: T Hamilton

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	GROUNDWATER ANALYSIS	Dissolved Metals (Field Filter)	Dissolved Mercury (Field Filter)	Dissolved hexavalent Chromium (F/P)	Total Cyanide	Total Oil and Grease	Chloride	VOC,PHC F1-F4	SVOCs (including PAHs)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
							F/P	F/P	F/P	P	P		P	P			
	AG WELL	28-Jun-23	12:20	Water	13	R	R	R	R	R	R	R	R	R			
	APP WELL	28-Jun-23	12:50														
	MW1-20	28-Jun-23	14:50														
	MW4-23	29-Jun-23	10:30														
	MW4-23X		10:30														
	FB1		10:35														
	MW5-23		11:10														
	MW2-20		12:00														
	MW3-20		13:00														
	BH213		14:00														
	BH214		15:00														
	BH219		16:15														

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO
Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

Metals, mercury + Cr6+ are field filtered
Many samples are silty/sandy.

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C			
		-2.3	-1.2	-0.7	0.4	-1.2	-1.1

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
[redacted]	06/30/23	9:10

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
[redacted]	6/30/23	9:20

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2328938**	Page	: 1 of 46
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029-01	Date Samples Received	: 11-Sep-2023 15:40
PO	: 73522487	Date Analysis Commenced	: 11-Sep-2023
C-O-C number	: 20-	Issue Date	: 18-Sep-2023 15:03
Sampler	: Keegan Cleghorn		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Inorganics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Metals, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Sample Comments

Sample	Client Id	*Comment*
WT2328938-001	APP Well	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-002	MW-01	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-003	AG Well	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-004	MW-02	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-005	MW4-23	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-006	MW5-23	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-007	BH213	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-008	BH219	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-009	MW-03	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.
WT2328938-010	MW-03DUP	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.

WT2328938-011	FB	RRQC: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
HSED	*High sediment content in submitted water sample. Analysis could only proceed using aqueous fraction after decanting. Results may be biased low and may be inappropriate for regulatory or compliance purposes.*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*

Analytical Results

WT2328938-001

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: APP Well

Client sampling date / time: 11-Sep-2023 08:50

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients									
Chloride	16887-00-6	4.72		0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals									
Mercury, total	7439-97-6	<0.0000050		0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589
Dissolved Metals									
Aluminum, dissolved	7429-90-5	<0.0100	DLM,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00100	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00597	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0723	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000200	DLM,	0.000200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000500	DLM,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	<0.100	DLM,	0.100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000500	DLM,	0.0000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	49.9	DLM,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000100	DLM,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00500	DLM,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00100	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	<0.00200	DLM,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	0.246	DLM,	0.100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000500	DLM,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	<0.0100	DLM,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	29.6	DLM,	0.0500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00737	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000753	DLM,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00500	DLM,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.500	DLM,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.14	DLM,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	<0.00200	DLM,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	<0.000500	DLM,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	7.99	DLM,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000100	DLM,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	6.57	DLM,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.329	DLM,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	7.16	DLM,	5.00	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00200	DLM,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000100	DLM,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00100	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00100	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00300	DLM,	0.00300	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00100	DLM,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000607	DLM,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00500	DLM,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	<0.0100	DLM,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00300	DLM,	0.00300	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APP Well
Client sampling date / time: 11-Sep-2023 08:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APP Well
Client sampling date / time: 11-Sep-2023 08:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.2	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	100	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.4	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	98.4	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	107	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	111	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	105	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								

Analytical Results

WT2328938-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: APP Well
Client sampling date / time: 11-Sep-2023 08:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.7	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	85.2	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Terphenyl-d14, p-	1718-51-0	107	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	85.7	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-01
Client sampling date / time: 11-Sep-2023 09:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	78.7	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000235	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589

Analytical Results

WT2328938-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-01
Client sampling date / time: 11-Sep-2023 09:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0070	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00025	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0760	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.036	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	0.0000506	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	147	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00148	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	0.000065	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0017	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	43.1	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00238	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000191	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	12.7	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00068	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000861	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	5.30	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	28.1	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.177	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	14.0	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	0.000015	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000361	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0154	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								

Analytical Results

WT2328938-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-01
Client sampling date / time: 11-Sep-2023 09:20

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0		1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons									
F1 (C6-C10)	----	<25		25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821

Analytical Results

WT2328938-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-01

Client sampling date / time: 11-Sep-2023 09:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	82.8	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	89.0	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	95.2	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	96.2	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	0.039	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	0.032	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.012	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	107	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Analytical Results

WT2328938-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-01

Client sampling date / time: 11-Sep-2023 09:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	83.8	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	86.4	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Terphenyl-d14, p-	1718-51-0	99.6	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	89.9	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AG Well

Client sampling date / time: 11-Sep-2023 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	18.5	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00462	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0471	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG Well
Client sampling date / time: 11-Sep-2023 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	63.4	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00388	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	0.537	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0043	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	39.2	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.0120	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000430	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.13	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00021	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	9.74	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	7.80	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.122	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	17.8	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000158	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0191	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG Well
Client sampling date / time: 11-Sep-2023 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543

Analytical Results

WT2328938-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AG Well
Client sampling date / time: 11-Sep-2023 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.3	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	96.4	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	93.3	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	97.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	114	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	116	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	112	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Analytical Results

WT2328938-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AG Well

Client sampling date / time: 11-Sep-2023 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.7	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	88.2	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Terphenyl-d14, p-	1718-51-0	109	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	86.5	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 11-Sep-2023 10:10

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients									
Chloride	16887-00-6	16.3	DLDS,	2.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals									
Mercury, total	7439-97-6	0.0000165		0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589
Dissolved Metals									
Aluminum, dissolved	7429-90-5	<0.0100	DLHC,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.118	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000200	DLHC,	0.000200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.137	DLHC,	0.100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	0.000177	DLHC,	0.0000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	123	DLHC,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000100	DLHC,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-004

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 11-Sep-2023 10:10

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals									
Chromium, dissolved	7440-47-3	<0.00500	DLHC,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.0239	DLHC,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.100	DLHC,	0.100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	<0.0100	DLHC,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	47.4	DLHC,	0.0500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.127	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	0.00678	DLHC,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.500	DLHC,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	91.0	DLHC,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.0178	DLHC,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	5.00	DLHC,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000100	DLHC,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	13.3	DLHC,	0.500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.163	DLHC,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	12.6	DLHC,	5.00	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00200	DLHC,	0.00200	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000100	DLHC,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00300	DLHC,	0.00300	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000598	DLHC,	0.000100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00500	DLHC,	0.00500	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0370	DLHC,	0.0100	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00300	DLHC,	0.00300	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field		-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-004

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 11-Sep-2023 10:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0 OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40 OWP,	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	81.0	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543

Analytical Results

WT2328938-004

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 11-Sep-2023 10:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	92.4	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	97.9	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	0.011	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	107	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	108	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	105	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	85.3	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	88.7	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Analytical Results

WT2328938-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 11-Sep-2023 10:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	99.4	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	95.1	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 11-Sep-2023 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	10.2	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000144	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0025	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00033	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0730	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	81.7	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	0.00092	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00058	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 11-Sep-2023 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	35.8	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.0168	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.00140	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	3.18	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00033	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000487	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	7.56	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	4.03	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.121	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	5.40	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000839	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	0.00061	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00083	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 11-Sep-2023 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,2-	107-06-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0 OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	0.71 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	0.62 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40 OWP,	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30 OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP,	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.8	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	89.9	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	95.3	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	98.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2328938-005

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 11-Sep-2023 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	0.024	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	0.030	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.071	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.041	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	0.019	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	112	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	109	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	85.8	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	90.1	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Terphenyl-d14, p-	1718-51-0	109	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Analytical Results

WT2328938-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 11-Sep-2023 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	99.0	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 11-Sep-2023 11:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	7.45	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000146	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131589
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0037	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	0.00011	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00026	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0425	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.016	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	72.0	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	0.00095	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00067	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0015	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	25.7	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00667	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.00120	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 11-Sep-2023 11:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.79	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00160	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000518	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	6.44	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	8.21	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.112	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	3.23	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	0.000013	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000295	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0011	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00083	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20 OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20 OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0 OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 11-Sep-2023 11:35

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	1.20	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	1.2		1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370		370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.0		1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	91.6		1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	92.6		1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	98.1		1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010		0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010		0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010		0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050		0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544

Analytical Results

WT2328938-006

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 11-Sep-2023 11:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.015	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	112	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	111	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	106	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chloroaniline, 4-	106-47-8	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	86.0	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Nitrobenzene-d5	4165-60-0	88.7	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Terphenyl-d14, p-	1718-51-0	101	1.0	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Analytical Results

WT2328938-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 11-Sep-2023 11:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Phenol	108-95-2	<0.50 HSED.	0.50	µg/L	E655A/WT	11-Sep-2023	13-Sep-2023	1128715
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	93.9	0.20	%	E655A/WT	11-Sep-2023	13-Sep-2023	1128715

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 11-Sep-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	8.12	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000329	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131592
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0023	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00044	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0274	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.015	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	0.0000446	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	60.4	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	0.00104	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00135	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	0.000080	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	21.9	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.516	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000927	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	0.00258	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	2.93	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00084	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	3.72	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 11-Sep-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	2.98	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.0917	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	1.94	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	0.000050	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000218	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0096	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 11-Sep-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.5	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	92.5	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.0	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	97.9	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544

Analytical Results

WT2328938-007

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 11-Sep-2023 12:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	112	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	116	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.3	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Nitrobenzene-d5	4165-60-0	100	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Terphenyl-d14, p-	1718-51-0	83.5	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	115	0.20	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 11-Sep-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.78	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000167	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131592
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0072	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00022	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.176	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.019	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	0.0000271	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	130	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00059	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	0.011	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	0.000092	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0034	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	55.3	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00184	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000248	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.77	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00126	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000433	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	8.43	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	4.53	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.167	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	15.4	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	0.00036	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.000974	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	0.0094	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-008

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 11-Sep-2023 13:00

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals									
Dissolved metals filtration location	----	Field		-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	0.55	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-008

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 11-Sep-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40 OWP.	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30 OWP.	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP.	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.3	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	92.1	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	92.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	98.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	0.021	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.047	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.026	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	105	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	114	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	105	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								

Analytical Results

WT2328938-008

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 11-Sep-2023 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	89.2	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Nitrobenzene-d5	4165-60-0	97.0	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Terphenyl-d14, p-	1718-51-0	93.6	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	109	0.20	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-009

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-03

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	6.16	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000235	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131592

Analytical Results

WT2328938-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-03
Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0031	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00050	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0565	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	118	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00053	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0042	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	51.1	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00477	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.000607	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.37	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00083	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000100	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	8.34	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	4.97	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.173	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	7.59	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.00100	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	0.00120	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								

Analytical Results

WT2328938-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-03
Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Acetone	67-64-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	OWP,	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	OWP,	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	OWP,	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	OWP,	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	OWP,	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0		1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons									
F1 (C6-C10)	----	<25	OWP,	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821

Analytical Results

WT2328938-009

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-03

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.4	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	84.0	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	90.8	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	98.1	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	0.040	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	0.029	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	0.015	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	0.020	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	0.017	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	0.035	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	0.021	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.048	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.027	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	0.046	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	106	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	111	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	109	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Analytical Results

WT2328938-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-03

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	94.1	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Nitrobenzene-d5	4165-60-0	102	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Terphenyl-d14, p-	1718-51-0	93.1	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	116	0.20	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-03DUP

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	6.20	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	0.0000195	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131592
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0030	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	0.00051	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	0.0553	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-03DUP
Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	114	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	0.00064	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	0.0043	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	49.7	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	0.00825	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	0.00104	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	1.37	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	0.00083	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	0.000117	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	8.30	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	5.17	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	0.159	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	8.32	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	0.00100	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	0.00110	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20 OWP,	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50 OWP,	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-03DUP

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20 OWP.	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20 OWP.	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,2-	95-50-1	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0 OWP.	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50 OWP.	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30 OWP.	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30 OWP.	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20 OWP.	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20 OWP.	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50 OWP.	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40 OWP.	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30 OWP.	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25 OWP.	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543

Analytical Results

WT2328938-010

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-03DUP

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	81.3	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Dichlorotoluene, 3,4-	95-75-0	88.9	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	93.7	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	97.6	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	0.033	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	0.021	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	0.012	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	0.018	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	0.018	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	0.027	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	0.036	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.080	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.044	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	0.048	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	105	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	110	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	106	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0 HSED,	2.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Diethyl phthalate	84-66-2	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dimethyl phthalate	131-11-3	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
bis(2-Chloroethyl) ether	111-44-4	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4-	121-14-2	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Analytical Results

WT2328938-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-03DUP

Client sampling date / time: 11-Sep-2023 14:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorobenzene, 1,2,4-	120-82-1	<0.40 HSED,	0.40	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.5	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Nitrobenzene-d5	4165-60-0	95.4	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Terphenyl-d14, p-	1718-51-0	90.4	1.0	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30 HSED,	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dichlorophenol, 2,4-	120-83-2	<0.30 HSED,	0.30	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Pentachlorophenol [PCP]	87-86-5	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,5-	95-95-4	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Trichlorophenol, 2,4,6-	88-06-2	<0.20 HSED,	0.20	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Dinitrophenol, 2,4-	51-28-5	<1.0 HSED,	1.0	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenol	108-95-2	<0.50 HSED,	0.50	µg/L	E655A/WT	12-Sep-2023	14-Sep-2023	1130784
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	109	0.20	%	E655A/WT	12-Sep-2023	14-Sep-2023	1130784

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2328938-011

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 11-Sep-2023 14:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/WT	12-Sep-2023	12-Sep-2023	1129787
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	15-Sep-2023	15-Sep-2023	1134063
Total Metals								
Mercury, total	7439-97-6	<0.0000050	0.0000050	mg/L	E508/WT	13-Sep-2023	13-Sep-2023	1131592
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Barium, dissolved	7440-39-3	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Calcium, dissolved	7440-70-2	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826

Analytical Results

WT2328938-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 11-Sep-2023 14:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Magnesium, dissolved	7439-95-4	<0.0050	0.0050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Manganese, dissolved	7439-96-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Molybdenum, dissolved	7439-98-7	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Potassium, dissolved	7440-09-7	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Rubidium, dissolved	7440-17-7	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silicon, dissolved	7440-21-3	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sodium, dissolved	7440-23-5	<0.050	0.050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Strontium, dissolved	7440-24-6	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2023	12-Sep-2023	1128826
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2023	1128826
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2023	1129050
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-Sep-2023	13-Sep-2023	1128724
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820

Analytical Results

WT2328938-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 11-Sep-2023 14:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Sep-2023	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Sep-2023	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Sep-2023	-
Hydrocarbons, total (C6-C50)	----	<370	370	µg/L	EC581SG/WT	-	12-Sep-2023	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	80.4	1.0	%	E601.SG/WT	11-Sep-2023	13-Sep-2023	1128543

Analytical Results

WT2328938-011

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 11-Sep-2023 14:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	105	1.0	%	E581.F1-L/WT	12-Sep-2023	12-Sep-2023	1128821
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.8	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Difluorobenzene, 1,4-	540-36-3	97.7	1.0	%	E611D/WT	12-Sep-2023	12-Sep-2023	1128820
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 1+2-	----	0.023	0.015	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Methylnaphthalene, 2-	91-57-6	0.023	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Naphthalene-d8	1146-65-2	108	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phenanthrene-d10	1517-22-2	106	0.1	%	E641A/WT	11-Sep-2023	13-Sep-2023	1128544
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.8	1.0	%	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Nitrobenzene-d5	4165-60-0	91.3	1.0	%	E655A/WT	12-Sep-2023	17-Sep-2023	1130784

Analytical Results

WT2328938-011

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 11-Sep-2023 14:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	111	1.0	%	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	12-Sep-2023	17-Sep-2023	1130784
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	92.7	0.20	%	E655A/WT	12-Sep-2023	17-Sep-2023	1130784

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2328938**	Page	: 1 of 26
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029-01	Date Samples Received	: 11-Sep-2023 15:40
PO	: 73522487	Issue Date	: 18-Sep-2023 15:04
C-O-C number	: 20-		
Sampler	: Keegan Cleghorn		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Non-Chlorinated Phenolics	QC-MRG4-1130783 002	----	Dinitrophenol, 2,4-	51-28-5	E655A	187 % LCS-H	50.0-140%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	Description
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Matrix Spike (MS) Recoveries								
Volatile Organic Compounds	Anonymous	Anonymous	Acetone	67-64-1	E611D	144 % MES	60.0-140%	Recovery greater than upper data quality objective

Result Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
AG Well	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
BH213	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
BH219	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
FB	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW-01	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW-02	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW-03	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW-03DUP	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW4-23	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
MW5-23	E567	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass total (hydrochloric acid)										
APP Well	E567	11-Sep-2023	13-Sep-2023	28 days	3 days	✓	13-Sep-2023	40 days	0 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
AG Well	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
APP Well	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
BH213	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
BH219	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
FB	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW-01	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW-02	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW-03	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW-03DUP	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW4-23	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW5-23	E235.Cl	11-Sep-2023	12-Sep-2023	28 days	1 days	✓	12-Sep-2023	28 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis: Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03DUP	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-01	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-02	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
AG Well	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) APP Well	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) BH213	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) BH219	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) FB	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW-01	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW-02	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW-03	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW-03DUP	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW4-23	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW5-23	E333	11-Sep-2023	15-Sep-2023	14 days	4 days	✓	15-Sep-2023	14 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) AG Well	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) APP Well	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH213	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH219	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) FB	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW-01	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW-02	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW-03	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW-03DUP	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW4-23	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW5-23	E421	11-Sep-2023	12-Sep-2023	180 days	1 days	✓	12-Sep-2023	180 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
FB	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MW-03	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
MW-03DUP	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
AG Well	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
APP Well	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH213	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) BH219	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW-01	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW-02	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW4-23	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW5-23	E581.F1-L	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP] AG Well	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP] APP Well	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP] BH213	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP] BH219	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
FB	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-01	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-02	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-03	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-03DUP	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW4-23	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW5-23	E601.SG	11-Sep-2023	11-Sep-2023	40 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03DUP	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-01	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-02	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03DUP	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times: Rec	Holding Times: Actual	Eval	Analysis: Analysis Date	Holding Times: Rec	Holding Times: Actual	Eval
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-01	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-02	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
AG Well	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
APP Well	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
BH213	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
BH219	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
FB	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-01	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-02	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-03	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW-03DUP	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW4-23	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) [ON MECP]										
MW5-23	E641A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW4-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW5-23	E655A	11-Sep-2023	11-Sep-2023	14 days	0 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH213	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
BH219	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
FB	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times: Rec	Holding Times: Actual	Eval	Analysis: Analysis Date	Holding Times: Rec	Holding Times: Actual	Eval
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-03DUP	E655A	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	14-Sep-2023	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
AG Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
APP Well	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-01	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap [ON MECP]										
MW-02	E655A	11-Sep-2023	11-Sep-2023	14 days	1 days	✓	13-Sep-2023	40 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AG Well	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
APP Well	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH213	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH219	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
FB	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW-01	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW-02	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW-03	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW-03DUP	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW4-23	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW5-23	E532A	11-Sep-2023	----	----	----		12-Sep-2023	28 days	1 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
AG Well	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
APP Well	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
BH213	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
BH219	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
FB	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW-01	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW-02	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW-03	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW-03DUP	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW4-23	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation: Preparation Date	Holding Times: Rec	Holding Times: Actual	Eval	Analysis: Analysis Date	Holding Times: Rec	Holding Times: Actual	Eval
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW5-23	E508	11-Sep-2023	13-Sep-2023	28 days	2 days	✓	13-Sep-2023	28 days	2 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
FB	E611D	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW-03	E611D	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW-03DUP	E611D	11-Sep-2023	12-Sep-2023	14 days	0 days	✓	12-Sep-2023	14 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
AG Well	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
APP Well	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH213	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH219	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW-01	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW-02	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW4-23	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW5-23	E611D	11-Sep-2023	12-Sep-2023	14 days	1 days	✓	12-Sep-2023	14 days	1 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1128821	1	16	6.2	5.0	✓
Chloride in Water by IC	E235.Cl	1129787	1	14	7.1	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1129050	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1128826	1	19	5.2	5.0	✓
Total Cyanide	E333	1134063	1	16	6.2	5.0	✓
Total Mercury in Water by CVAAS	E508	1131592	2	36	5.5	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1128820	1	19	5.2	5.0	✓
Laboratory Control Samples (LCS)							
BNA (ON 625-511 list) by GC-MS	E655A	1134147	3	22	13.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1128821	1	16	6.2	5.0	✓
Chloride in Water by IC	E235.Cl	1129787	1	14	7.1	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1129050	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1128826	1	19	5.2	5.0	✓
Oil & Grease by Gravimetry	E567	1128724	1	19	5.2	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	1128544	1	11	9.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1128543	1	18	5.5	5.0	✓
Total Cyanide	E333	1134063	1	16	6.2	5.0	✓
Total Mercury in Water by CVAAS	E508	1131592	2	36	5.5	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1128820	1	19	5.2	5.0	✓
Method Blanks (MB)							
BNA (ON 625-511 list) by GC-MS	E655A	1134147	3	22	13.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1128821	1	16	6.2	5.0	✓
Chloride in Water by IC	E235.Cl	1129787	1	14	7.1	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1129050	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1128826	1	19	5.2	5.0	✓
Oil & Grease by Gravimetry	E567	1128724	1	19	5.2	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	1128544	1	11	9.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1128543	1	18	5.5	5.0	✓
Total Cyanide	E333	1134063	1	16	6.2	5.0	✓
Total Mercury in Water by CVAAS	E508	1131592	2	36	5.5	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1128820	1	19	5.2	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1128821	1	16	6.2	5.0	✓
Chloride in Water by IC	E235.Cl	1129787	1	14	7.1	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1129050	1	20	5.0	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Metals in Water by CRC ICPMS	E421	1128826	1	19	5.2	5.0	✓
Total Cyanide	E333	1134063	1	16	6.2	5.0	✓
Total Mercury in Water by CVAAS	E508	1131592	2	36	5.5	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1128820	1	19	5.2	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Total Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Total Mercury in Water by CVAAS	E508 ALS Environmental - Waterloo	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A ALS Environmental - Waterloo	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
Oil & Grease by Gravimetry	E567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hexane LVI GC-MS	E641A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
BNA (ON 625-511 list) by GC-MS	E655A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS.
F1-BTEX	EC580 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
BNA Extraction	EP655 ALS Environmental - Waterloo	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.

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QUALITY CONTROL REPORT

Work Order	: **WT2328938**	Page	: 1 of 21
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 11210029-01	Date Samples Received	: 11-Sep-2023 15:40
PO	: 73522487	Date Analysis Commenced	: 11-Sep-2023
C-O-C number	: 20-	Issue Date	: 18-Sep-2023 15:04
Sampler	: Keegan Cleghorn 519 725 3313		
Site	: Badger Cambridge		
Quote number	: Q83562 - 11210029-SSOW-73522487-1		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Waterloo Metals, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 1129787)											
WT2328896-001	Anonymous	Chloride	16887-00-6	E235.Cl	5.00	mg/L	471	473	0.427%	20%	----
Cyanides (QC Lot: 1134063)											
TY2308957-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.0020	mg/L	0.272	0.280	2.91%	20%	----
Total Metals (QC Lot: 1131589)											
TY2308959-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Total Metals (QC Lot: 1131592)											
WT2328938-007	BH213	Mercury, total	7439-97-6	E508	0.0000050	mg/L	0.0000329	0.0000363	0.0000034	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1128826)											
WT2328768-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	2.4 µg/L	0.0025	0.00009	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	0.14 µg/L	0.00014	0.000003	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.62 µg/L	0.00056	0.00006	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	41.8 µg/L	0.0399	4.67%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.020 µg/L	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	30 µg/L	0.030	0.0005	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	119	117	1.59%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.10 µg/L	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	1.86 µg/L	0.00172	0.00014	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.050 µg/L	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0031	0.0030	0.00003	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	31.6	30.3	4.32%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00122	0.00124	1.87%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.851 µg/L	0.000833	2.11%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.58 µg/L	0.00054	0.00004	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	0.831	0.808	2.79%	20%	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1128826) - continued											
WT2328768-001	Anonymous	Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00084	0.00089	0.00005	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.239 µg/L	0.000253	0.000013	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	6.40	6.30	1.50%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.010 µg/L	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	7700 µg/L	7.38	4.21%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	1.92	1.88	2.10%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	6.25	6.30	0.799%	20%	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	0.015 µg/L	0.000013	0.000002	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	1.37 µg/L	0.00136	1.09%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	0.71 µg/L	0.00066	0.00005	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	1.5 µg/L	<0.0010	0.0005	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1129050)											
WT2328537-002	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1128820)											
WT2328728-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1128820) - continued											
WT2328728-001	Anonymous	Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1128821)											
WT2328728-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients (QCLot: 1129787)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 1134063)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Total Metals (QCLot: 1131589)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Total Metals (QCLot: 1131592)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1128826)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1128826) - continued						
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Speciated Metals (QCLot: 1129050)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1128724)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Volatile Organic Compounds (QCLot: 1128820)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1128820) - continued						
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1128543)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Hydrocarbons (QCLot: 1128821)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1128544)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1128544) - continued						
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Phthalate Esters (QCLot: 1128715)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Phthalate Esters (QCLot: 1130784)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Phthalate Esters (QCLot: 1134147)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Semi-Volatile Organics (QCLot: 1128715)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Semi-Volatile Organics (QCLot: 1128715) - continued						
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1130784)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1134147)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 1128715)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Chlorinated Phenolics (QCLot: 1130784)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Chlorinated Phenolics (QCLot: 1134147)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Chlorinated Phenolics (QCLot: 1134147) - continued						
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Non-Chlorinated Phenolics (QCLot: 1128715)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1130784)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1134147)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1129787)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Cyanides (QCLot: 1134063)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	97.8	80.0	120	----
Total Metals (QCLot: 1131589)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0.0001 mg/L	101	80.0	120	----
Total Metals (QCLot: 1131592)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0.0001 mg/L	100	80.0	120	----
Dissolved Metals (QCLot: 1128826)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	101	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	102	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	105	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	105	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	110	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	101	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	105	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	101	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	101	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.0025 mg/L	103	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	102	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	101	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	100	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	102	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	102	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.0125 mg/L	108	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	109	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.0125 mg/L	104	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	102	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	101	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	105	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	106	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 1128826) - continued									
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	105	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	99.9	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	108	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	98.1	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	105	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.0125 mg/L	103	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	108	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	97.8	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	103	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	99.8	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	102	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.0125 mg/L	101	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	104	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	103	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	104	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	98.4	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	101	80.0	120	----
Speciated Metals (QCLot: 1129050)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	95.2	80.0	120	----
Aggregate Organics (QCLot: 1128724)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	100	70.0	130	----
Volatile Organic Compounds (QCLot: 1128820)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	129	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	114	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	103	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	105	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1128820) - continued									
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	102	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	113	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	109	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	112	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	96.6	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	115	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	125	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	113	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	96.3	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	96.6	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	104	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	103	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	99.7	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	99.1	70.0	130	----
Hydrocarbons (QCLot: 1128543)									
F2 (C10-C16)	----	E601.SG	100	µg/L	3685.12 µg/L	99.0	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	7481.33 µg/L	102	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4274.88 µg/L	112	70.0	130	----
Hydrocarbons (QCLot: 1128821)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	102	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1128544)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	106	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	106	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	110	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	117	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	110	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	101	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	101	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	99.3	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	104	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	103	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	109	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	111	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	132	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	105	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	107	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	111	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	112	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	106	50.0	140	----
Phthalate Esters (QCLot: 1128715)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	121	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	95.3	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	92.1	50.0	140	----
Phthalate Esters (QCLot: 1130784)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	130	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	97.1	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	97.0	50.0	140	----
Phthalate Esters (QCLot: 1134147)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	121	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	96.0	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	89.5	50.0	140	----
Semi-Volatile Organics (QCLot: 1128715)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	82.6	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	83.0	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Semi-Volatile Organics (QCLot: 1128715) - continued									
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	87.1	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	31.4	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	33.4	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	109	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	102	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	63.7	50.0	140	----
Semi-Volatile Organics (QCLot: 1130784)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	87.1	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	88.2	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	95.3	50.0	140	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	41.2	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	130	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	120	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	65.2	50.0	140	----
Semi-Volatile Organics (QCLot: 1134147)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	80.5	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	78.8	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	83.0	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	35.9	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	34.6	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	99.5	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	92.1	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	63.5	50.0	140	----
Chlorinated Phenolics (QCLot: 1128715)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	85.9	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	93.6	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	109	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	102	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	96.0	50.0	140	----
Chlorinated Phenolics (QCLot: 1130784)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	95.6	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	102	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	132	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	115	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	108	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Chlorinated Phenolics (QCLot: 1134147)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	81.0	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	89.8	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	101	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	97.8	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	91.6	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1128715)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	89.8	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	119	50.0	140	----
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	110	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1130784)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	98.9	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	# 187	50.0	140	LCS-H
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	112	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1134147)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	87.8	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	100	50.0	140	----
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	107	50.0	140	----

Qualifiers

Qualifier	Description
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1129787)										
WT2328896-001	Anonymous	Chloride	16887-00-6	E235.Cl	1000 mg/L	1000 mg/L	100	75.0	125	----
Cyanides (QCLot: 1134063)										
TY2308957-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	ND mg/L	0.25 mg/L	ND	75.0	125	----
Total Metals (QCLot: 1131589)										
TY2308959-002	Anonymous	Mercury, total	7439-97-6	E508	0.000111 mg/L	0.0001 mg/L	111	70.0	130	----
Total Metals (QCLot: 1131592)										
WT2328938-008	BH219	Mercury, total	7439-97-6	E508	0.000110 mg/L	0.0001 mg/L	110	70.0	130	----
Dissolved Metals (QCLot: 1128826)										
WT2328768-003	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.106 mg/L	0.1 mg/L	106	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0548 mg/L	0.05 mg/L	110	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0598 mg/L	0.05 mg/L	120	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.00570 mg/L	0.005 mg/L	114	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0459 mg/L	0.05 mg/L	91.8	70.0	130	----
		Boron, dissolved	7440-42-8	E421	ND mg/L	0.05 mg/L	ND	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00505 mg/L	0.005 mg/L	101	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00279 mg/L	0.0025 mg/L	112	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0131 mg/L	0.0125 mg/L	105	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0126 mg/L	0.0125 mg/L	100	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0119 mg/L	0.0125 mg/L	95.0	70.0	130	----
		Iron, dissolved	7439-89-6	E421	ND mg/L	0.05 mg/L	ND	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0250 mg/L	0.025 mg/L	100	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0137 mg/L	0.0125 mg/L	110	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0241 mg/L	0.025 mg/L	96.4	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	0.634 mg/L	0.5 mg/L	127	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 1128826) - continued										
WT2328768-003	Anonymous	Rubidium, dissolved	7440-17-7	E421	0.00554 mg/L	0.005 mg/L	111	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0646 mg/L	0.05 mg/L	129	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	0.5 mg/L	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00394 mg/L	0.005 mg/L	78.8	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.00542 mg/L	0.005 mg/L	108	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0504 mg/L	0.05 mg/L	101	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.00516 mg/L	0.005 mg/L	103	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0270 mg/L	0.025 mg/L	108	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0137 mg/L	0.0125 mg/L	110	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.00545 mg/L	0.005 mg/L	109	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	0.00025 mg/L	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0279 mg/L	0.025 mg/L	112	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.0238 mg/L	0.025 mg/L	95.3	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.00560 mg/L	0.005 mg/L	112	70.0	130	----
Speciated Metals (QCLot: 1129050)										
WT2328537-002	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0389 mg/L	0.04 mg/L	97.4	70.0	130	----
Volatile Organic Compounds (QCLot: 1128820)										
WT2328728-001	Anonymous	Acetone	67-64-1	E611D	144 µg/L	100 µg/L	144	60.0	140	MES
		Benzene	71-43-2	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Bromoform	75-25-2	E611D	111 µg/L	100 µg/L	111	60.0	140	----
		Bromomethane	74-83-9	E611D	117 µg/L	100 µg/L	117	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	99.1 µg/L	100 µg/L	99.1	60.0	140	----
		Chlorobenzene	108-90-7	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Chloroform	67-66-3	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	99.7 µg/L	100 µg/L	99.7	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	98.8 µg/L	100 µg/L	98.8	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	105 µg/L	100 µg/L	105	60.0	140	----

Sub-Matrix: **Water**

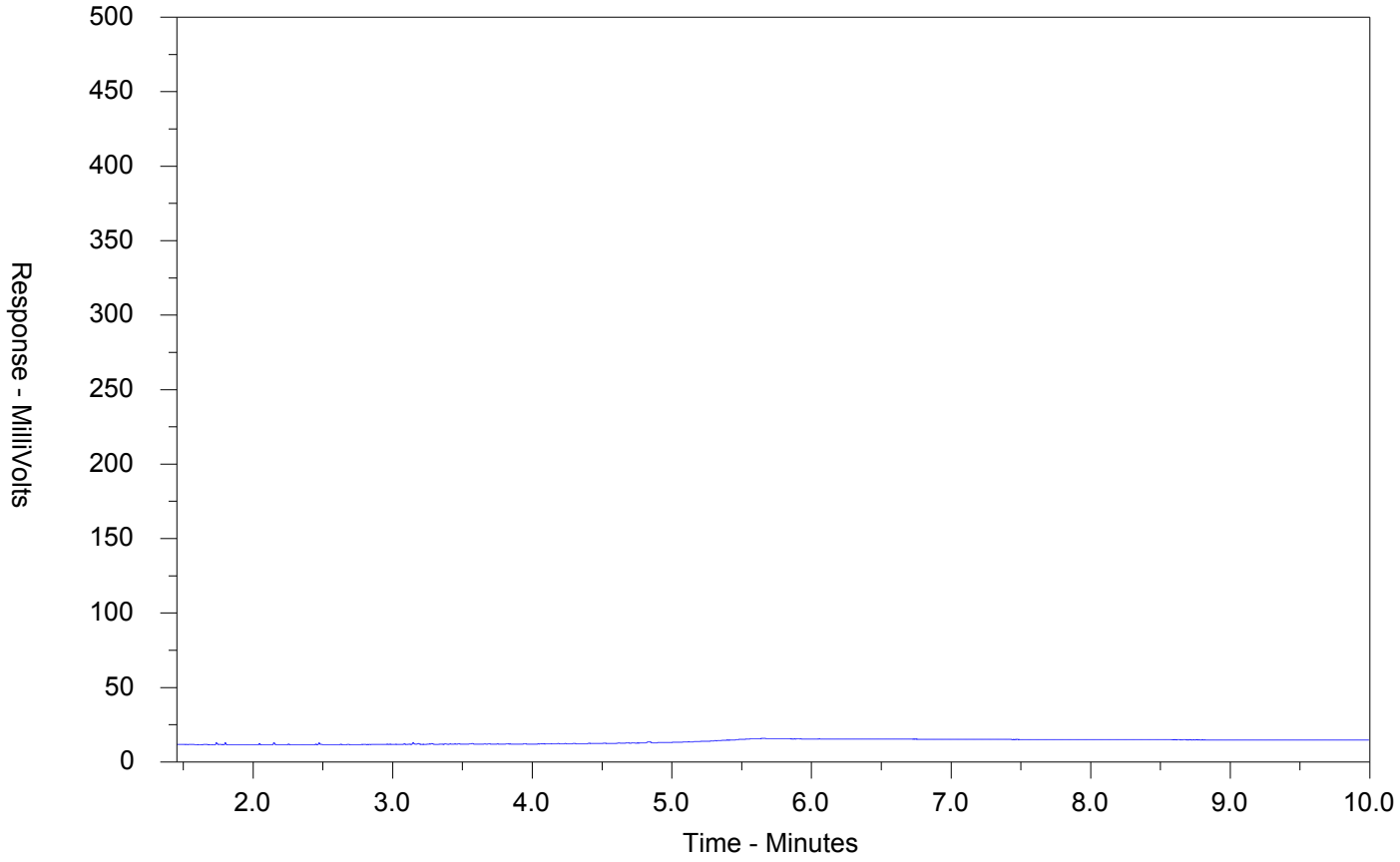
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1128820) - continued										
WT2328728-001	Anonymous	Dichloroethane, 1,1-	75-34-3	E611D	111 µg/L	100 µg/L	111	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	116 µg/L	100 µg/L	116	60.0	140	----
		Dichloromethane	75-09-2	E611D	118 µg/L	100 µg/L	118	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Ethylbenzene	100-41-4	E611D	94.7 µg/L	100 µg/L	94.7	60.0	140	----
		Hexane, n-	110-54-3	E611D	116 µg/L	100 µg/L	116	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	129 µg/L	100 µg/L	129	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	114 µg/L	100 µg/L	114	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Styrene	100-42-5	E611D	95.9 µg/L	100 µg/L	95.9	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	97.6 µg/L	100 µg/L	97.6	60.0	140	----
		Toluene	108-88-3	E611D	92.6 µg/L	100 µg/L	92.6	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Trichloroethylene	79-01-6	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Vinyl chloride	75-01-4	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	201 µg/L	200 µg/L	100	60.0	140	----
		Xylene, o-	95-47-6	E611D	98.5 µg/L	100 µg/L	98.5	60.0	140	----
Hydrocarbons (QCLot: 1128821)										
WT2328728-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1830 µg/L	2000 µg/L	91.5	60.0	140	----

Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-001-E601.SG
Client Sample ID: APP Well



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

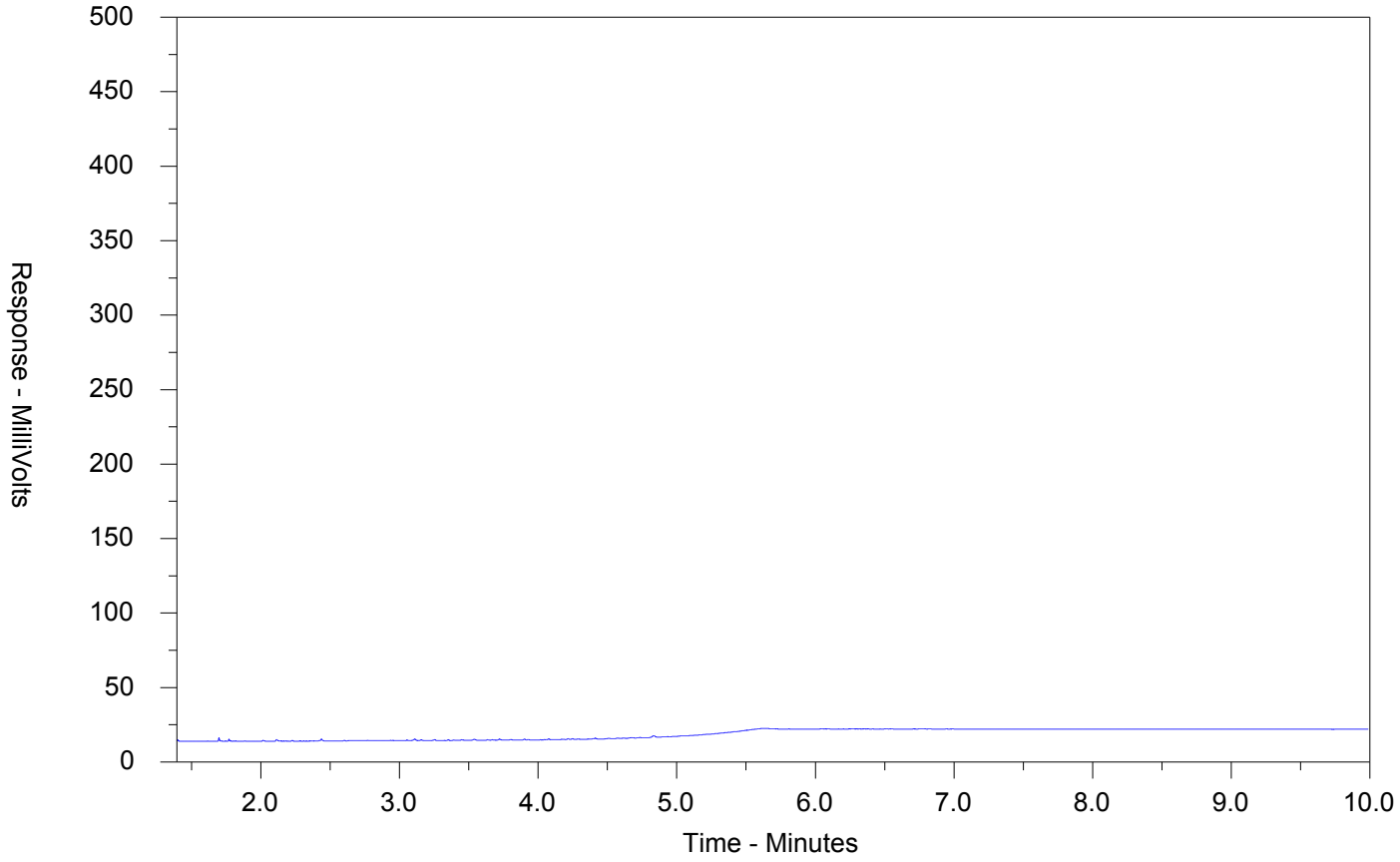
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-002-E601.SG
Client Sample ID: MW-01



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

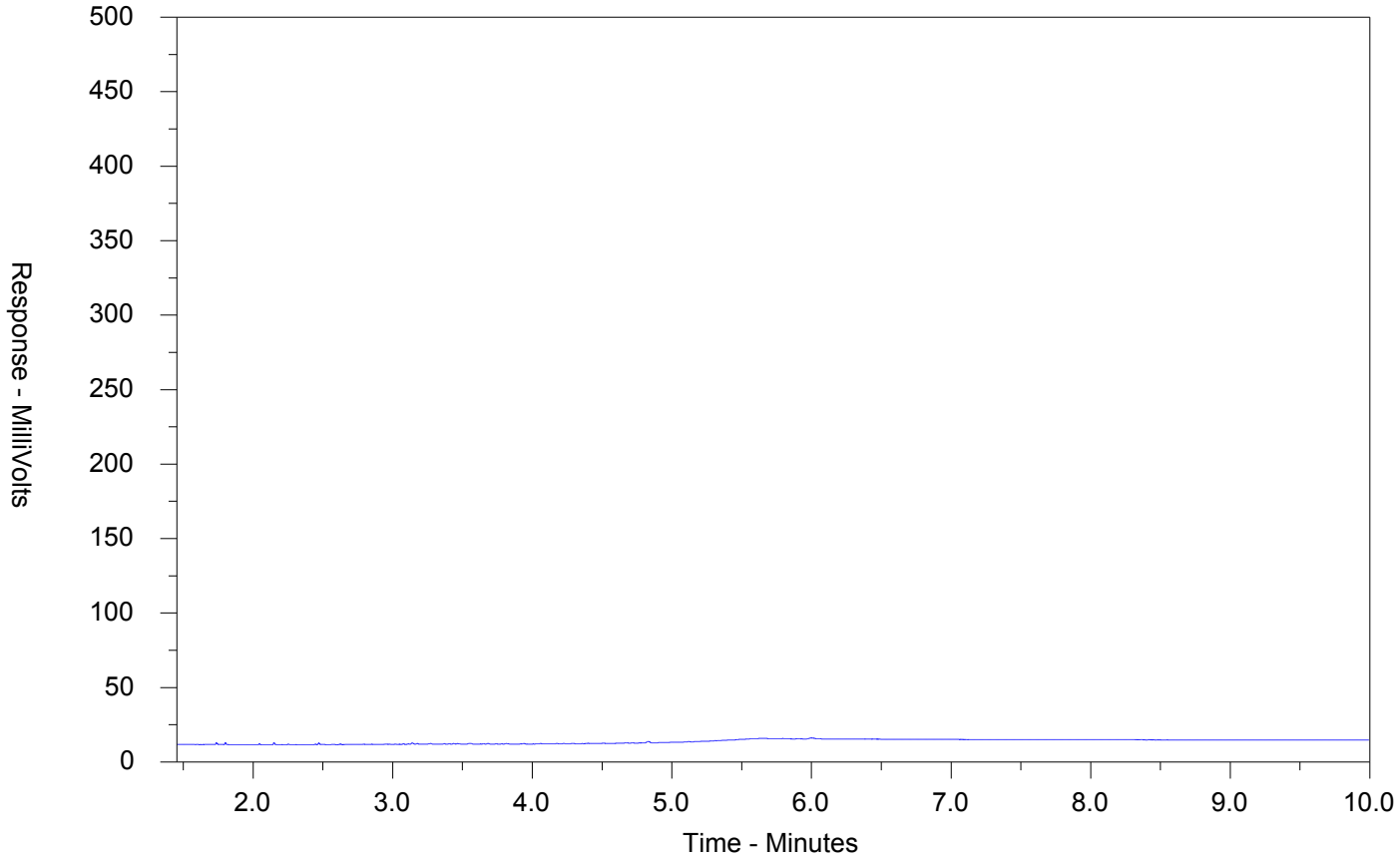
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-003-E601.SG
Client Sample ID: AG Well



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

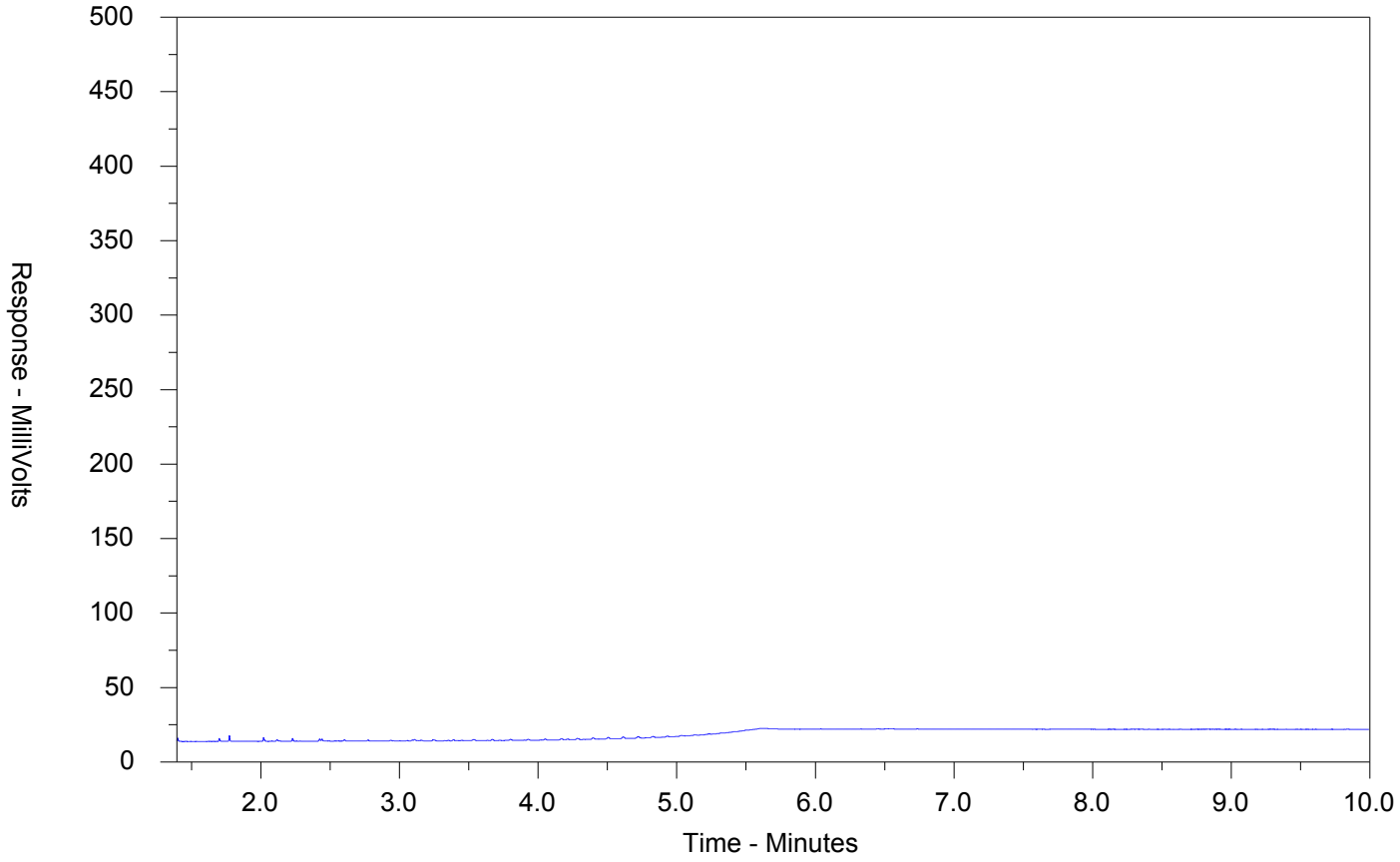
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-004-E601.SG
Client Sample ID: MW-02



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

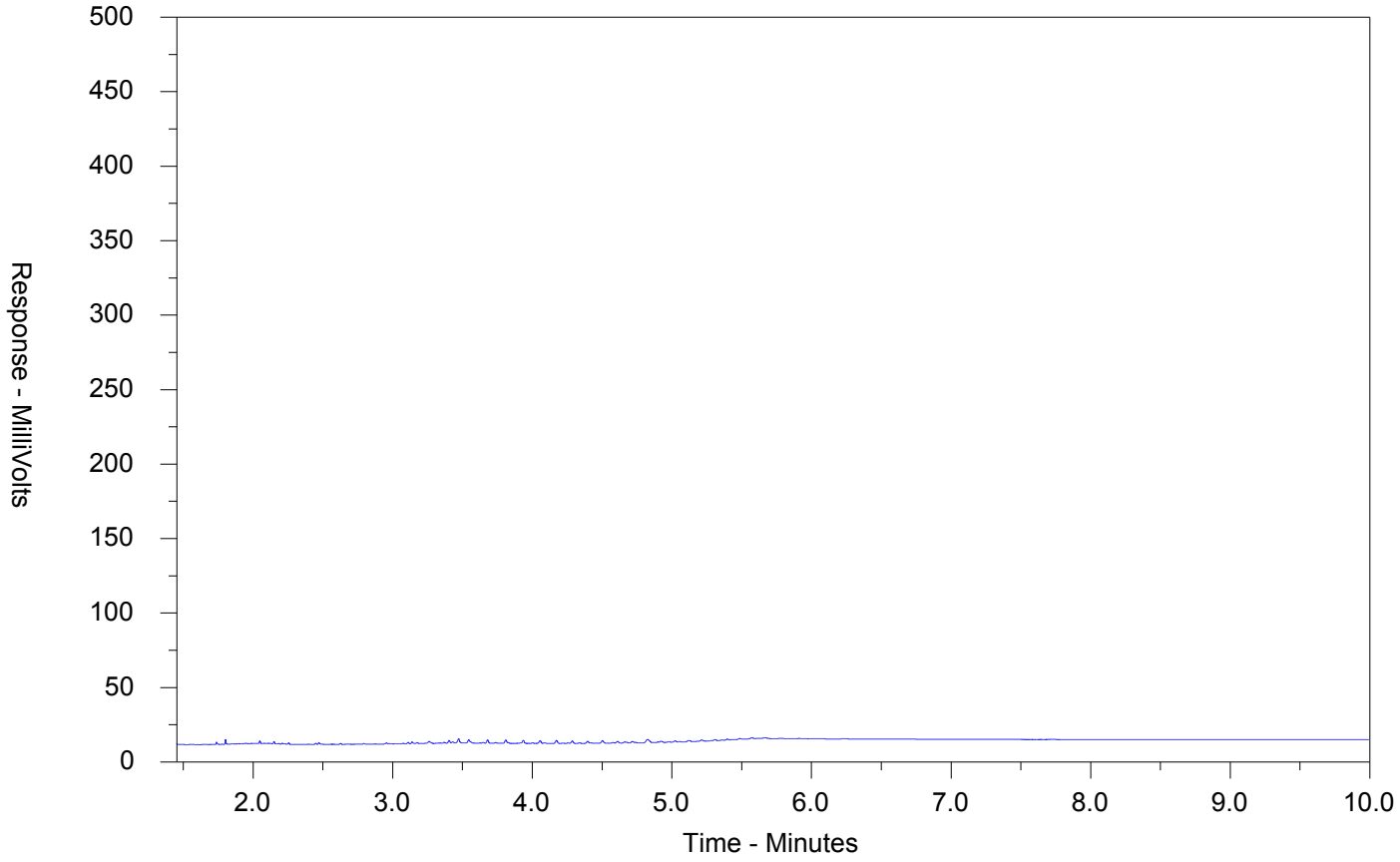
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-005-E601.SG
Client Sample ID: MW4-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

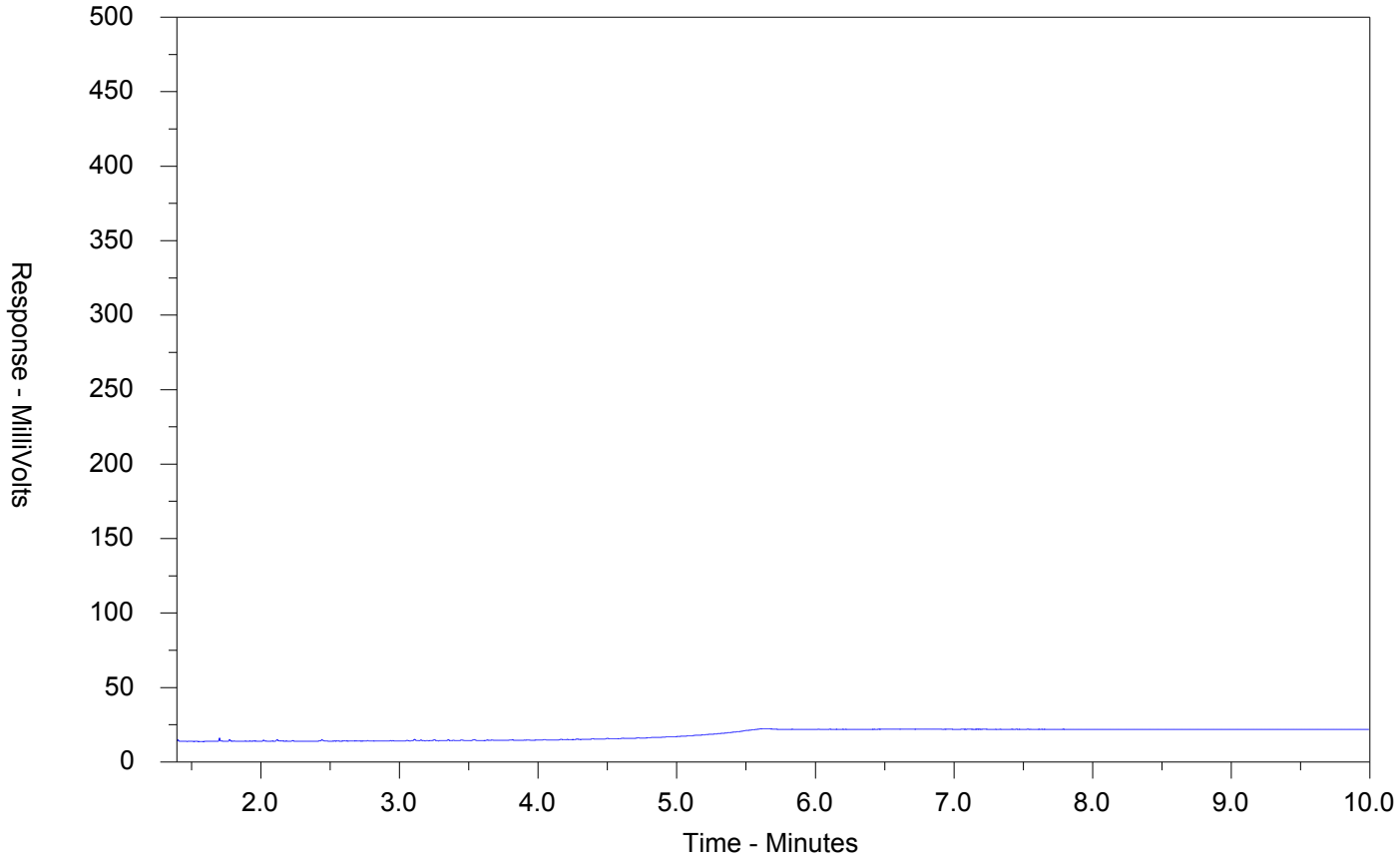
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-006-E601.SG
Client Sample ID: MW5-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

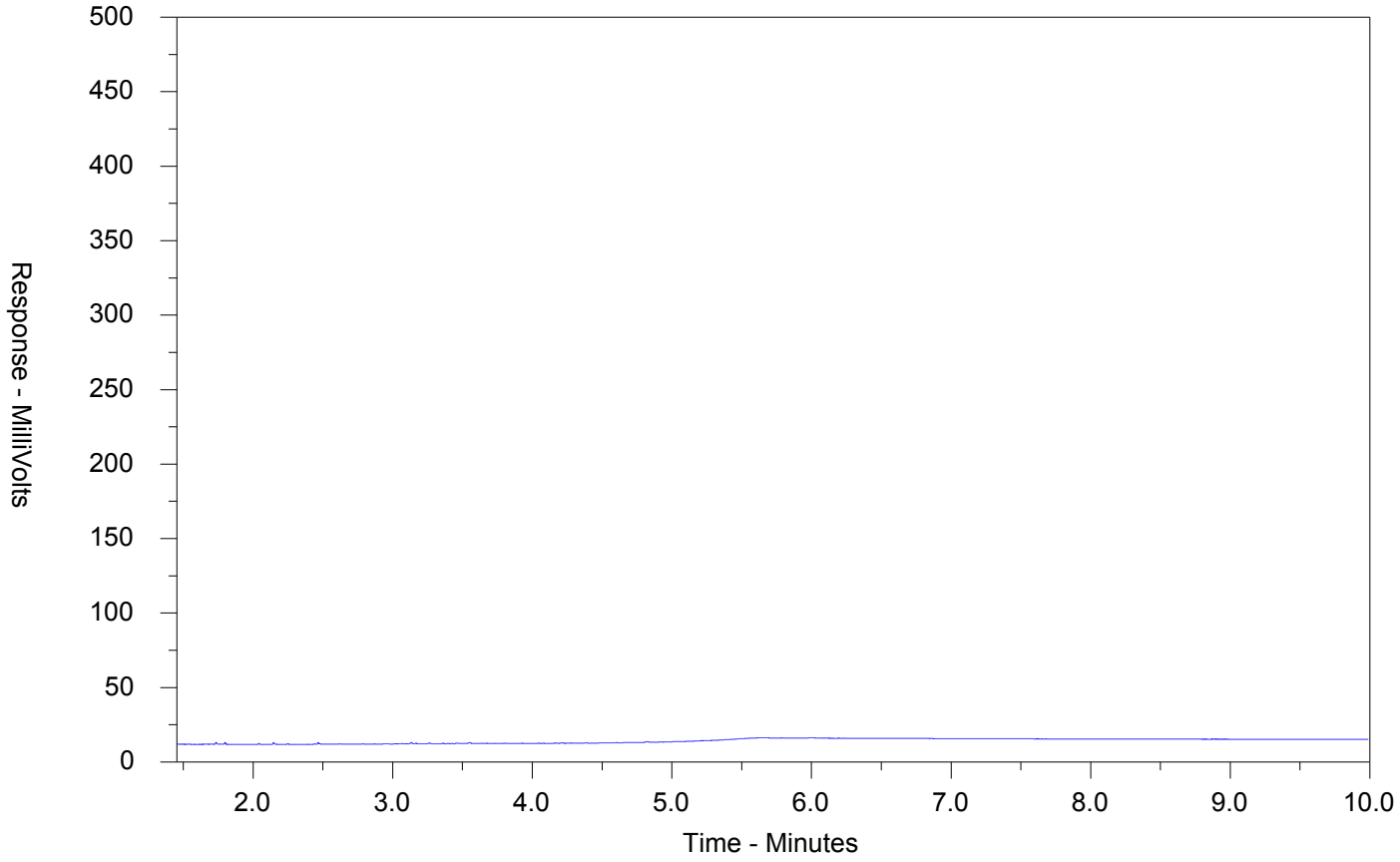
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-007-E601.SG
Client Sample ID: BH213



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

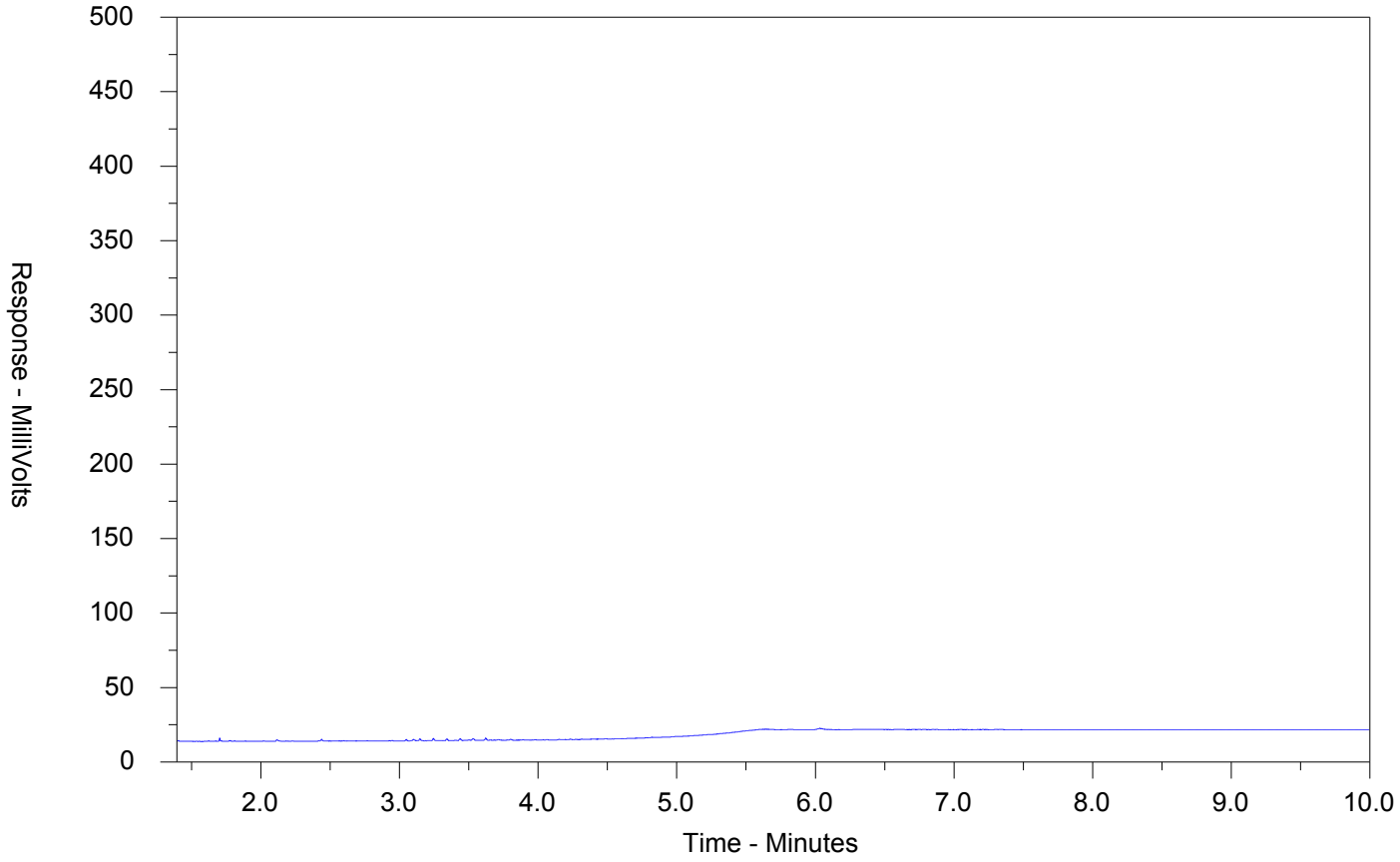
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-008-E601.SG
Client Sample ID: BH219



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

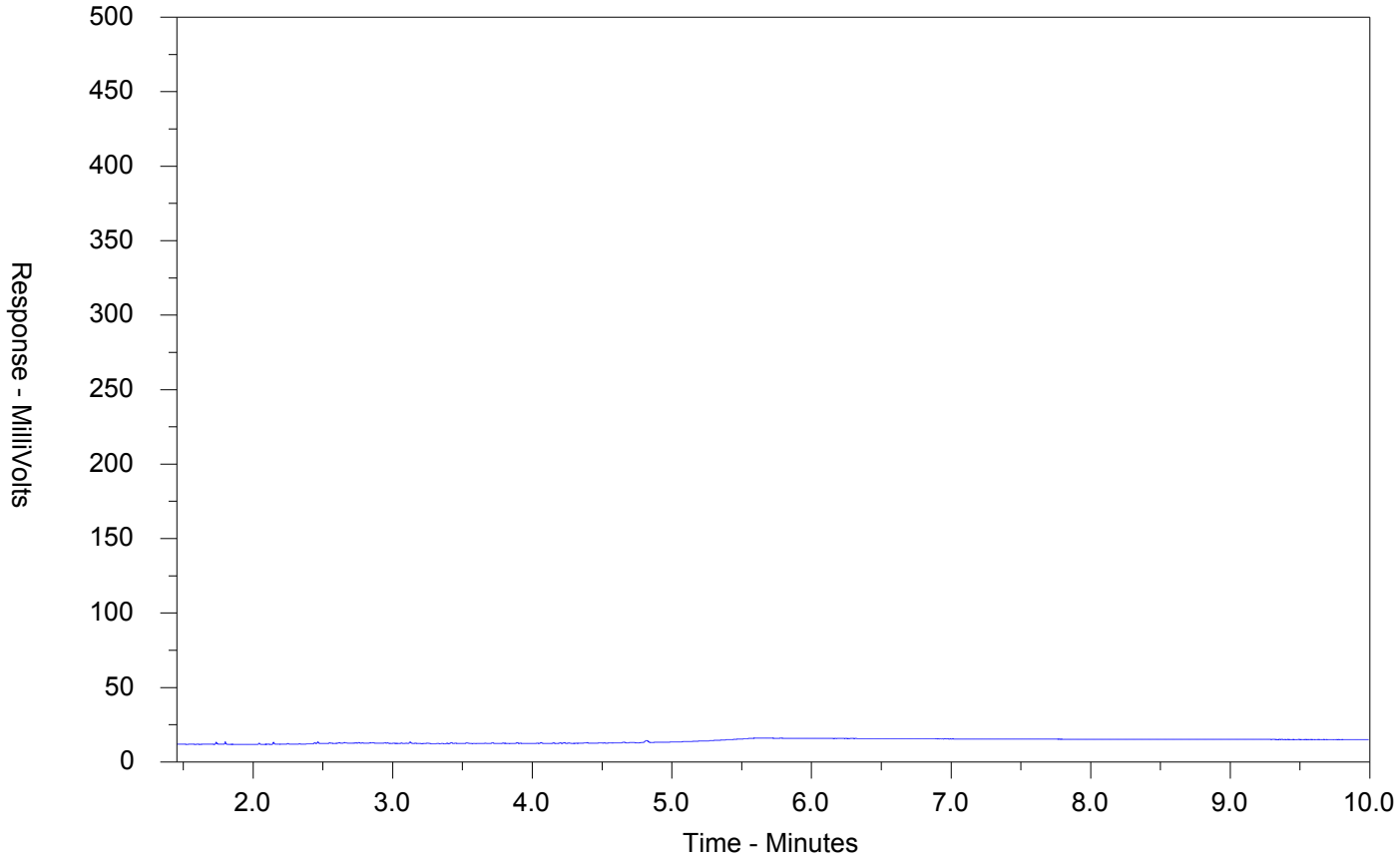
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-009-E601.SG
Client Sample ID: MW-03



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

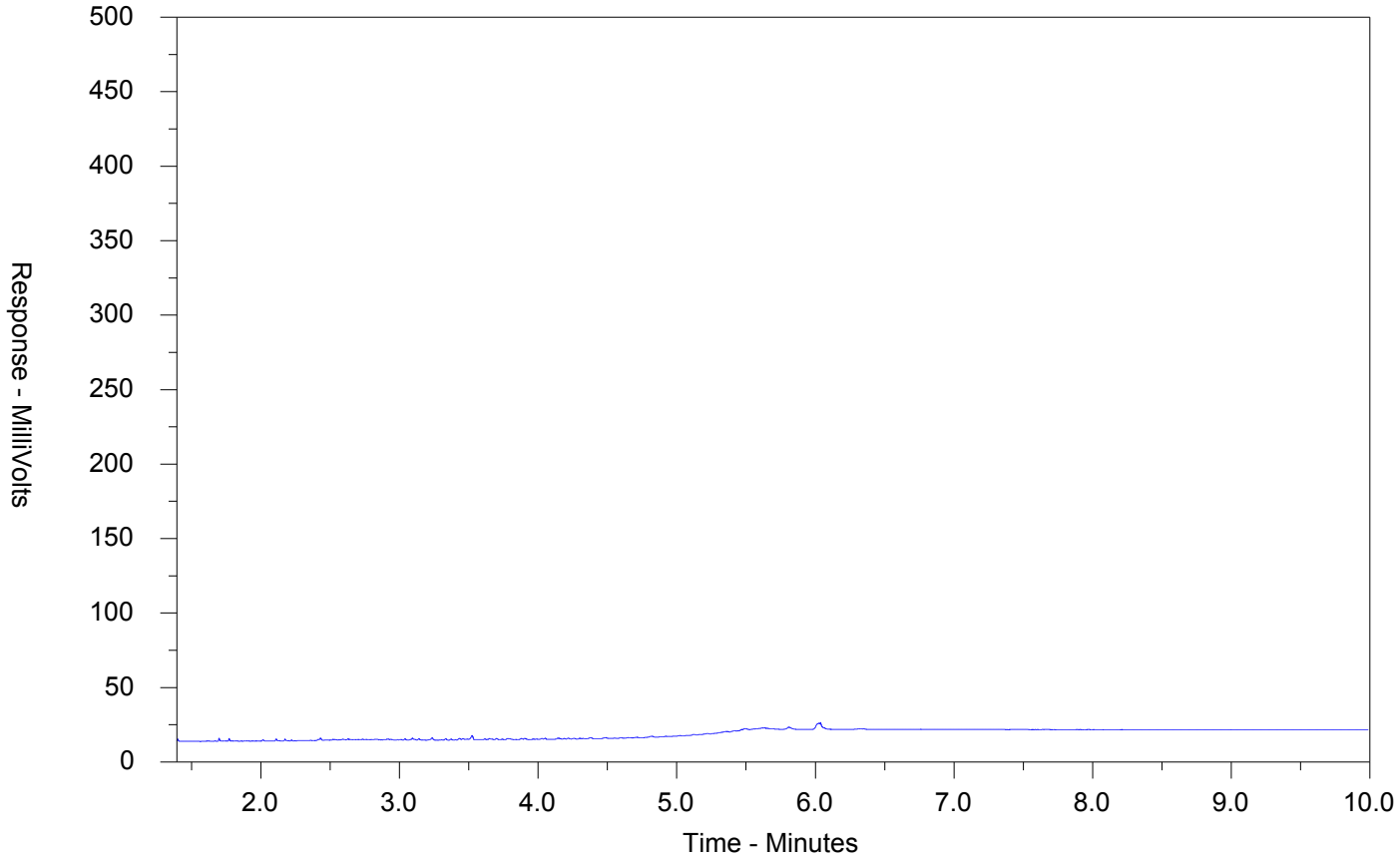
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-010-E601.SG
Client Sample ID: MW-03DUP



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

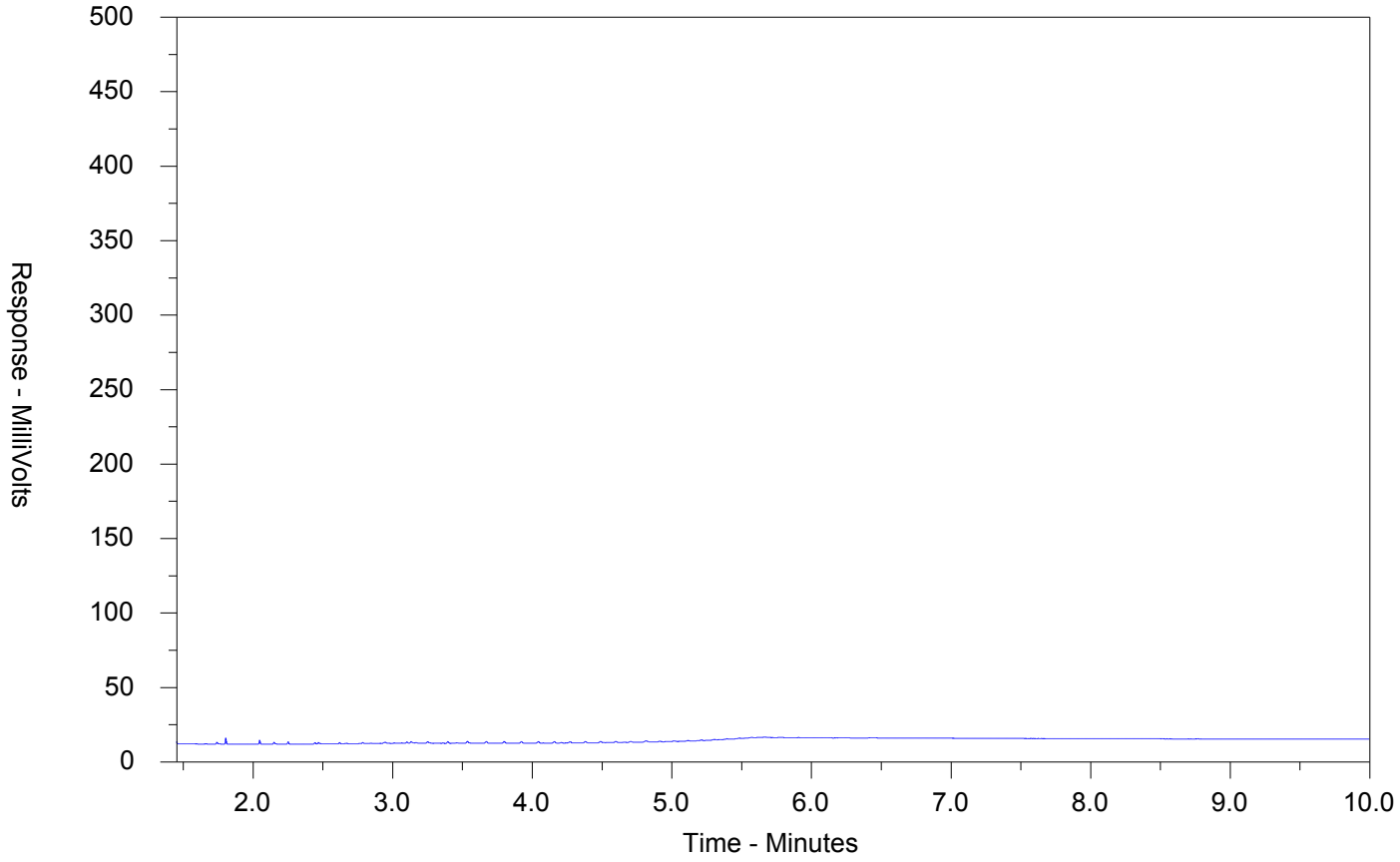
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2328938-011-E601.SG
Client Sample ID: FB



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20

ALS www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Page

Environmental Division Waterloo

Work Order Reference
WT2328938

Telephone : + 1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax pascal.renella@ghd.com
Email 2 See SSOW/PO
Email 3

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax accountspayableCDN@ghd.com
Email 2

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minim
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minin
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minin
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minim
Same day [E2] if received by 10am M-S - 200% rush surcharge
☐ fees may apply to rush resuests on weekends, statutory holidays routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information

ALS Account # / Quote #:	GHDL100 / WT2022GHDL1000018
Job #:	11210029-01
PO / AFE:	73522487
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2328938

ALS Contact: Rick H

Sampler: K. Oegham

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	GROUNDWATER ANALYSIS	Dissolved Metals (Field Filter)	Dissolved Mercury (Field Filter)	Dissolved hexavalent Chromium (FF)	Total Cyanide	Total Oil and Grease	Chloride	VOC,PHC F1-F4	SVOCs (including PAHs)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	APP Well	11-Sep-23	8 50	Water	13	R	R	R	R	R	R	R	R	R			
	MW-01		9 20														
	AG Well		9 45														
	MW-02		10 10														
	MW4-23		11 00														
	MW5-23		11 35														
	BH213		12 20														
	BH219		13 00														
	MW-03		1415														
	MW-03-DUP		1415														
	FB		1430														

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

-No FB bottle provided. Used DI water.

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
6.6, 13.1, 12.1, 14.2	

SHIPMENT RELEASE (client use)

Released by: [redacted] Date: Sept 11/23 Time: 15 30

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: [redacted] Date: Sep 11/23 Time: 3:40pm

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

VW-250 OR-126 OGG-884/888 NM 477
OS-812/813 GC695 CN317 SC-459

ALS Canada Ltd.

right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2404034**	Page	: 1 of 45
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 23-Feb-2024 15:00
PO	: 735-009459	Date Analysis Commenced	: 23-Feb-2024
C-O-C number	: ----	Issue Date	: 29-Feb-2024 15:05
Sampler	: Keegan Cleghorn		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Andrea Armstrong	Department Manager - Air Quality and Volatiles	VOC, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Niki Goebel	Inorganics Analyst	Metals, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
DLUI	*Detection Limit Raised: Unknown interference generated an apparent false positive test result.*
RRV	*Reported result verified by repeat analysis.*

Analytical Results

WT2404034-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 23-Feb-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	5.34	0.50	mg/L	E235.Cl/WT	26-Feb-2024	27-Feb-2024	1344909
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	27-Feb-2024	27-Feb-2024	1344976
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0031	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Arsenic, dissolved	7440-38-2	0.00300	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Barium, dissolved	7440-39-3	0.0849	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Boron, dissolved	7440-42-8	0.016	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Calcium, dissolved	7440-70-2	50.5	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Copper, dissolved	7440-50-8	0.00052	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Iron, dissolved	7439-89-6	0.157	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lithium, dissolved	7439-93-2	0.0039	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Magnesium, dissolved	7439-95-4	28.7	0.0050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Manganese, dissolved	7439-96-5	0.00502	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	29-Feb-2024	29-Feb-2024	1348589
Molybdenum, dissolved	7439-98-7	0.000474	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Potassium, dissolved	7440-09-7	1.12	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Rubidium, dissolved	7440-17-7	0.00045	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silicon, dissolved	7440-21-3	7.74	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sodium, dissolved	7440-23-5	6.73	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Strontium, dissolved	7440-24-6	0.548	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sulfur, dissolved	7704-34-9	12.6	0.50	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Uranium, dissolved	7440-61-1	0.000270	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zinc, dissolved	7440-66-6	0.0013	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	29-Feb-2024	1348589

Analytical Results

WT2404034-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 23-Feb-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	26-Feb-2024	1344308
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Feb-2024	1344348
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	28-Feb-2024	28-Feb-2024	1346885
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	27-Feb-2024	1344335
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335

Analytical Results

WT2404034-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 23-Feb-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	23-Feb-2024	26-Feb-2024	1342843
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	26-Feb-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	23-Feb-2024	26-Feb-2024	1342843
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	26-Feb-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	23-Feb-2024	26-Feb-2024	1342843
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	27-Feb-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	26-Feb-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	23-Feb-2024	26-Feb-2024	1342843
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	77.0	1.0	%	E601.SG/WT	23-Feb-2024	26-Feb-2024	1342843
Dichlorotoluene, 3,4-	95-75-0	111	1.0	%	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	99.1	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Difluorobenzene, 1,4-	540-36-3	97.7	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	114	0.1	%	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Naphthalene-d8	1146-65-2	113	0.1	%	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Phenanthrene-d10	1517-22-2	107	0.1	%	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Phthalate Esters								

Analytical Results

WT2404034-001

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: APW1

Client sampling date / time: 23-Feb-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	92.6	1.0	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Nitrobenzene-d5	4165-60-0	108	1.0	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Terphenyl-d14, p-	1718-51-0	105	1.0	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	123	0.20	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2404034-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 23-Feb-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	90.3 DLDS	2.50	mg/L	E235.Cl/WT	26-Feb-2024	27-Feb-2024	1344909
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	27-Feb-2024	27-Feb-2024	1344976
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0032	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308

Analytical Results

WT2404034-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 23-Feb-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Arsenic, dissolved	7440-38-2	0.00016	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Barium, dissolved	7440-39-3	0.0640	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Boron, dissolved	7440-42-8	0.031	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cadmium, dissolved	7440-43-9	0.0000186	0.0000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Calcium, dissolved	7440-70-2	123	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Copper, dissolved	7440-50-8	0.00127	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lithium, dissolved	7439-93-2	0.0013	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Magnesium, dissolved	7439-95-4	43.1	0.0050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Manganese, dissolved	7439-96-5	0.00137	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	29-Feb-2024	29-Feb-2024	1348589
Molybdenum, dissolved	7439-98-7	0.000287	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Potassium, dissolved	7440-09-7	11.9	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Rubidium, dissolved	7440-17-7	0.00050	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Selenium, dissolved	7782-49-2	0.000678	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silicon, dissolved	7440-21-3	4.50	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sodium, dissolved	7440-23-5	26.7	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Strontium, dissolved	7440-24-6	0.164	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sulfur, dissolved	7704-34-9	14.2	0.50	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Uranium, dissolved	7440-61-1	0.000368	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zinc, dissolved	7440-66-6	0.0055	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	29-Feb-2024	1348589
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	26-Feb-2024	1344308
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Feb-2024	1344348
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	28-Feb-2024	28-Feb-2024	1346885

Analytical Results

WT2404034-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 23-Feb-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	27-Feb-2024	1344335
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336

Analytical Results

WT2404034-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 23-Feb-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	23-Feb-2024	26-Feb-2024	1342843
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	26-Feb-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	23-Feb-2024	26-Feb-2024	1342843
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	26-Feb-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	23-Feb-2024	26-Feb-2024	1342843
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	27-Feb-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	26-Feb-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	23-Feb-2024	26-Feb-2024	1342843
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.8	1.0	%	E601.SG/WT	23-Feb-2024	26-Feb-2024	1342843
Dichlorotoluene, 3,4-	95-75-0	94.5	1.0	%	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	99.1	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Difluorobenzene, 1,4-	540-36-3	98.7	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Benzo(a)pyrene	50-32-8	<0.0075 DLM	0.0075	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Benzo(g,h,i)perylene	191-24-2	0.078	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Indeno(1,2,3-c,d)pyrene	193-39-5	0.042	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Methylnaphthalene, 1-	90-12-0	0.012	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Methylnaphthalene, 1+2-	----	0.026	0.015	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Methylnaphthalene, 2-	91-57-6	0.014	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Pyrene	129-00-0	0.011	0.010	µg/L	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	124	0.1	%	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Naphthalene-d8	1146-65-2	120	0.1	%	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Phenanthrene-d10	1517-22-2	113	0.1	%	E641A/WT	23-Feb-2024	26-Feb-2024	1342844
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190

Analytical Results

WT2404034-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 23-Feb-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.6	1.0	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Nitrobenzene-d5	4165-60-0	102	1.0	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Terphenyl-d14, p-	1718-51-0	92.4	1.0	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	109	0.20	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2404034-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 23-Feb-2024 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	22.9	0.50	mg/L	E235.Cl/WT	26-Feb-2024	27-Feb-2024	1344909
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	27-Feb-2024	27-Feb-2024	1344976
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Arsenic, dissolved	7440-38-2	0.00263	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Barium, dissolved	7440-39-3	0.0562	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308

Analytical Results

WT2404034-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 23-Feb-2024 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Calcium, dissolved	7440-70-2	75.3	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Copper, dissolved	7440-50-8	0.00173	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Iron, dissolved	7439-89-6	0.519	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lithium, dissolved	7439-93-2	0.0043	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Magnesium, dissolved	7439-95-4	40.1	0.0050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Manganese, dissolved	7439-96-5	0.0160	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	29-Feb-2024	29-Feb-2024	1348589
Molybdenum, dissolved	7439-98-7	0.000480	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Potassium, dissolved	7440-09-7	1.08	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Rubidium, dissolved	7440-17-7	0.00020	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silicon, dissolved	7440-21-3	9.76	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sodium, dissolved	7440-23-5	7.98	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Strontium, dissolved	7440-24-6	0.143	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sulfur, dissolved	7704-34-9	16.4	0.50	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Uranium, dissolved	7440-61-1	0.000187	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zinc, dissolved	7440-66-6	0.0148	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	29-Feb-2024	1348589
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	26-Feb-2024	1344308
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Feb-2024	1344348
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	28-Feb-2024	28-Feb-2024	1346885
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335

Analytical Results

WT2404034-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 23-Feb-2024 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	27-Feb-2024	1344335
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	27-Feb-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	27-Feb-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483

Analytical Results

WT2404034-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 23-Feb-2024 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	27-Feb-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	27-Feb-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.8	1.0	%	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Dichlorotoluene, 3,4-	95-75-0	110	1.0	%	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	99.0	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Difluorobenzene, 1,4-	540-36-3	97.8	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	112	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene-d8	1146-65-2	107	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene-d10	1517-22-2	103	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190

Analytical Results

WT2404034-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AGW1

Client sampling date / time: 23-Feb-2024 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	86.8	1.0	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Nitrobenzene-d5	4165-60-0	102	1.0	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Terphenyl-d14, p-	1718-51-0	112	1.0	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	28-Feb-2024	1344190
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	105	0.20	%	E655A/WT	26-Feb-2024	28-Feb-2024	1344190

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2404034-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW2-20

Client sampling date / time: 23-Feb-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	13.7 DLDS	2.50	mg/L	E235.Cl/WT	26-Feb-2024	27-Feb-2024	1344909
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	27-Feb-2024	27-Feb-2024	1344976
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0058	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Arsenic, dissolved	7440-38-2	0.00102	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Barium, dissolved	7440-39-3	0.111	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Boron, dissolved	7440-42-8	0.115	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cadmium, dissolved	7440-43-9	0.000177	0.0000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Calcium, dissolved	7440-70-2	117	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cobalt, dissolved	7440-48-4	0.00053	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308

Analytical Results

WT2404034-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 23-Feb-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Copper, dissolved	7440-50-8	0.0202	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lithium, dissolved	7439-93-2	0.0015	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Magnesium, dissolved	7439-95-4	48.0	0.0050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Manganese, dissolved	7439-96-5	0.0882	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	29-Feb-2024	29-Feb-2024	1348589
Molybdenum, dissolved	7439-98-7	0.000152	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Nickel, dissolved	7440-02-0	0.00636	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Phosphorus, dissolved	7723-14-0	0.065	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Potassium, dissolved	7440-09-7	84.0 DLHC,	0.500	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Rubidium, dissolved	7440-17-7	0.0150	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Selenium, dissolved	7782-49-2	0.000145	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silicon, dissolved	7440-21-3	5.02	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sodium, dissolved	7440-23-5	12.0	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Strontium, dissolved	7440-24-6	0.162	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sulfur, dissolved	7704-34-9	13.2	0.50	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thallium, dissolved	7440-28-0	0.000083	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tungsten, dissolved	7440-33-7	0.00011	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Uranium, dissolved	7440-61-1	0.000505	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zinc, dissolved	7440-66-6	0.0410	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	29-Feb-2024	1348589
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	26-Feb-2024	1344308
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Feb-2024	1344348
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	29-Feb-2024	29-Feb-2024	1348571
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335

Analytical Results

WT2404034-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 23-Feb-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	27-Feb-2024	1344335
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	27-Feb-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	27-Feb-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	27-Feb-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	27-Feb-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.4	1.0	%	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483

Analytical Results

WT2404034-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 23-Feb-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	100	1.0	%	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.4	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Difluorobenzene, 1,4-	540-36-3	98.0	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(g,h,i)perylene	191-24-2	0.015	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Indeno(1,2,3-c,d)pyrene	193-39-5	0.013	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	119	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene-d8	1146-65-2	116	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	89.7	1.0	%	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Nitrobenzene-d5	4165-60-0	105	1.0	%	E655A/WT	26-Feb-2024	29-Feb-2024	1344190

Analytical Results

WT2404034-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 23-Feb-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	113	1.0	%	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	29-Feb-2024	1344190
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	123	0.20	%	E655A/WT	26-Feb-2024	29-Feb-2024	1344190

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2404034-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 23-Feb-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	12.8 DLDS	2.50	mg/L	E235.Cl/WT	26-Feb-2024	27-Feb-2024	1344909
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	27-Feb-2024	27-Feb-2024	1344976
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0065	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Arsenic, dissolved	7440-38-2	0.00102	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Barium, dissolved	7440-39-3	0.114	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Boron, dissolved	7440-42-8	0.121	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cadmium, dissolved	7440-43-9	0.000190	0.0000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Calcium, dissolved	7440-70-2	120	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cobalt, dissolved	7440-48-4	0.00053	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Copper, dissolved	7440-50-8	0.0204	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lithium, dissolved	7439-93-2	0.0017	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Magnesium, dissolved	7439-95-4	48.5	0.0050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308

Analytical Results

WT2404034-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 23-Feb-2024 10:15

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals									
Manganese, dissolved	7439-96-5	0.0850		0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	29-Feb-2024	29-Feb-2024	1348589
Molybdenum, dissolved	7439-98-7	0.000164		0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Nickel, dissolved	7440-02-0	0.00644		0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Phosphorus, dissolved	7723-14-0	0.051		0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Potassium, dissolved	7440-09-7	87.3	DLHC,	0.500	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Rubidium, dissolved	7440-17-7	0.0150		0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Selenium, dissolved	7782-49-2	0.000155		0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silicon, dissolved	7440-21-3	5.08		0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silver, dissolved	7440-22-4	<0.000010		0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sodium, dissolved	7440-23-5	12.1		0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Strontium, dissolved	7440-24-6	0.164		0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sulfur, dissolved	7704-34-9	13.3		0.50	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tellurium, dissolved	13494-80-9	<0.00020		0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thallium, dissolved	7440-28-0	0.000084		0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thorium, dissolved	7440-29-1	<0.00010		0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tin, dissolved	7440-31-5	<0.00010		0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Titanium, dissolved	7440-32-6	<0.00060	DLUI,	0.00060	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tungsten, dissolved	7440-33-7	0.00011		0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Uranium, dissolved	7440-61-1	0.000521		0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Vanadium, dissolved	7440-62-2	<0.00050		0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zinc, dissolved	7440-66-6	0.0408		0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zirconium, dissolved	7440-67-7	<0.00030		0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Dissolved mercury filtration location	----	Field		-	-	EP509/WT	-	29-Feb-2024	1348589
Dissolved metals filtration location	----	Field		-	-	EP421/WT	-	26-Feb-2024	1344308
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A/WT	-	26-Feb-2024	1344348
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567/WT	29-Feb-2024	29-Feb-2024	1348571
Volatile Organic Compounds									
Acetone	67-64-1	<20		20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Benzene	71-43-2	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromodichloromethane	75-27-4	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromoform	75-25-2	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromomethane	74-83-9	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Carbon tetrachloride	56-23-5	<0.20		0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chlorobenzene	108-90-7	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chloroform	67-66-3	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromochloromethane	124-48-1	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromoethane, 1,2-	106-93-4	<0.20		0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,2-	95-50-1	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,3-	541-73-1	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,4-	106-46-7	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorodifluoromethane	75-71-8	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,1-	75-34-3	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335

Analytical Results

WT2404034-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 23-Feb-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	27-Feb-2024	1344335
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	27-Feb-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	27-Feb-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	27-Feb-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	27-Feb-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.4	1.0	%	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Dichlorotoluene, 3,4-	95-75-0	103	1.0	%	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	99.8	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Difluorobenzene, 1,4-	540-36-3	98.0	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2404034-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 23-Feb-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	112	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene-d8	1146-65-2	110	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	86.7	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Nitrobenzene-d5	4165-60-0	103	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Terphenyl-d14, p-	1718-51-0	80.2	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190

Analytical Results

WT2404034-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: DUP

Client sampling date / time: 23-Feb-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	102	0.20	%	E655A/WT	26-Feb-2024	27-Feb-2024	1344190

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2404034-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 23-Feb-2024 10:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	3.69	0.50	mg/L	E235.Cl/WT	26-Feb-2024	27-Feb-2024	1344909
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	27-Feb-2024	27-Feb-2024	1344976
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0035	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Arsenic, dissolved	7440-38-2	0.00016	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Barium, dissolved	7440-39-3	0.0325	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Boron, dissolved	7440-42-8	0.011	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Calcium, dissolved	7440-70-2	58.1	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Chromium, dissolved	7440-47-3	0.00144	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Copper, dissolved	7440-50-8	0.00062	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lithium, dissolved	7439-93-2	0.0010	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Magnesium, dissolved	7439-95-4	22.6	0.0050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Manganese, dissolved	7439-96-5	0.0140	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	29-Feb-2024	29-Feb-2024	1348589
Molybdenum, dissolved	7439-98-7	0.00142	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308

Analytical Results

WT2404034-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 23-Feb-2024 10:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Potassium, dissolved	7440-09-7	1.68	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Rubidium, dissolved	7440-17-7	0.00089	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Selenium, dissolved	7782-49-2	0.000290	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silicon, dissolved	7440-21-3	5.16	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sodium, dissolved	7440-23-5	6.19	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Strontium, dissolved	7440-24-6	0.102	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sulfur, dissolved	7704-34-9	1.88	0.50	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Titanium, dissolved	7440-32-6	0.00032	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Uranium, dissolved	7440-61-1	0.000295	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zinc, dissolved	7440-66-6	0.0012	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	29-Feb-2024	1348589
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	26-Feb-2024	1344308
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00170	0.00050	mg/L	E532A/WT	-	26-Feb-2024	1344348
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	29-Feb-2024	29-Feb-2024	1348571
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	27-Feb-2024	1344335

Analytical Results

WT2404034-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 23-Feb-2024 10:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	27-Feb-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	27-Feb-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	27-Feb-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	27-Feb-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.1	1.0	%	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Dichlorotoluene, 3,4-	95-75-0	107	1.0	%	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.7	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Difluorobenzene, 1,4-	540-36-3	97.5	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484

Analytical Results

WT2404034-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 23-Feb-2024 10:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1-	90-12-0	0.019	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1+2-	----	0.044	0.015	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 2-	91-57-6	0.025	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	122	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene-d8	1146-65-2	118	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene-d10	1517-22-2	109	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.7	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Nitrobenzene-d5	4165-60-0	106	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Terphenyl-d14, p-	1718-51-0	93.2	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190

Analytical Results

WT2404034-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 23-Feb-2024 10:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1344190
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	117	0.20	%	E655A/WT	26-Feb-2024	27-Feb-2024	1344190

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2404034-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 23-Feb-2024 11:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	11.4	0.50	mg/L	E235.Cl/WT	26-Feb-2024	27-Feb-2024	1344909
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	27-Feb-2024	27-Feb-2024	1344976
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0043	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Arsenic, dissolved	7440-38-2	0.00038	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Barium, dissolved	7440-39-3	0.0519	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Calcium, dissolved	7440-70-2	64.8	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Chromium, dissolved	7440-47-3	0.00103	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Copper, dissolved	7440-50-8	0.00058	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Magnesium, dissolved	7439-95-4	32.6	0.0050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Manganese, dissolved	7439-96-5	0.00783	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	29-Feb-2024	29-Feb-2024	1348589
Molybdenum, dissolved	7439-98-7	0.000912	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Potassium, dissolved	7440-09-7	1.82	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Rubidium, dissolved	7440-17-7	0.00049	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Selenium, dissolved	7782-49-2	0.000397	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silicon, dissolved	7440-21-3	6.63	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308

Analytical Results

WT2404034-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 23-Feb-2024 11:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sodium, dissolved	7440-23-5	3.02	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Strontium, dissolved	7440-24-6	0.0974	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sulfur, dissolved	7704-34-9	4.39	0.50	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Uranium, dissolved	7440-61-1	0.000614	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Vanadium, dissolved	7440-62-2	0.00054	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	29-Feb-2024	1348589
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	26-Feb-2024	1344308
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00098	0.00050	mg/L	E532A/WT	-	26-Feb-2024	1344348
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	29-Feb-2024	29-Feb-2024	1348571
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	27-Feb-2024	1344335
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335

Analytical Results

WT2404034-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 23-Feb-2024 11:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	27-Feb-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	27-Feb-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	27-Feb-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	27-Feb-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	87.2	1.0	%	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Dichlorotoluene, 3,4-	95-75-0	109	1.0	%	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.8	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Difluorobenzene, 1,4-	540-36-3	98.0	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484

Analytical Results

WT2404034-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 23-Feb-2024 11:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1-	90-12-0	0.027	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1+2-	----	0.061	0.015	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 2-	91-57-6	0.034	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Pyrene	129-00-0	0.014	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	113	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene-d8	1146-65-2	109	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene-d10	1517-22-2	100	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.5	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Nitrobenzene-d5	4165-60-0	94.0	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Terphenyl-d14, p-	1718-51-0	73.4	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	113	0.20	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2404034-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 23-Feb-2024 11:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	10.2	0.50	mg/L	E235.Cl/WT	26-Feb-2024	27-Feb-2024	1344909
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	27-Feb-2024	27-Feb-2024	1344976
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0020	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Arsenic, dissolved	7440-38-2	0.00045	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Barium, dissolved	7440-39-3	0.0277	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Boron, dissolved	7440-42-8	0.015	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cadmium, dissolved	7440-43-9	0.0000615	0.0000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Calcium, dissolved	7440-70-2	62.5	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cobalt, dissolved	7440-48-4	0.00116	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Copper, dissolved	7440-50-8	0.00157	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lead, dissolved	7439-92-1	0.000066	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Magnesium, dissolved	7439-95-4	24.7	0.0050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Manganese, dissolved	7439-96-5	0.547	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	29-Feb-2024	29-Feb-2024	1348589
Molybdenum, dissolved	7439-98-7	0.000768	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Nickel, dissolved	7440-02-0	0.00271	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Potassium, dissolved	7440-09-7	2.96	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Rubidium, dissolved	7440-17-7	0.00080	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silicon, dissolved	7440-21-3	3.63	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sodium, dissolved	7440-23-5	3.24	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Strontium, dissolved	7440-24-6	0.0973	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sulfur, dissolved	7704-34-9	1.52	0.50	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thallium, dissolved	7440-28-0	0.000045	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Uranium, dissolved	7440-61-1	0.000206	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zinc, dissolved	7440-66-6	0.0101	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	29-Feb-2024	1348589

Analytical Results

WT2404034-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 23-Feb-2024 11:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	26-Feb-2024	1344308
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Feb-2024	1344348
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	29-Feb-2024	29-Feb-2024	1348571
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	27-Feb-2024	1344335
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335

Analytical Results

WT2404034-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 23-Feb-2024 11:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	27-Feb-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	27-Feb-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	27-Feb-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	27-Feb-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.8	1.0	%	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Dichlorotoluene, 3,4-	95-75-0	108	1.0	%	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.4	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Difluorobenzene, 1,4-	540-36-3	97.7	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	116	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene-d8	1146-65-2	117	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phthalate Esters								

Analytical Results

WT2404034-008

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 23-Feb-2024 11:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	86.9	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Nitrobenzene-d5	4165-60-0	90.2	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Terphenyl-d14, p-	1718-51-0	74.1	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	106	0.20	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2404034-009

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 23-Feb-2024 12:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.54	0.50	mg/L	E235.Cl/WT	26-Feb-2024	27-Feb-2024	1344909
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	27-Feb-2024	27-Feb-2024	1344976
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0010	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308

Analytical Results

WT2404034-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 23-Feb-2024 12:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Arsenic, dissolved	7440-38-2	0.00013	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Barium, dissolved	7440-39-3	0.176	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Boron, dissolved	7440-42-8	0.018	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cadmium, dissolved	7440-43-9	0.0000302	0.0000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Calcium, dissolved	7440-70-2	122	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Copper, dissolved	7440-50-8	0.00049	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lithium, dissolved	7439-93-2	0.0027	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Magnesium, dissolved	7439-95-4	54.2	0.0050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Manganese, dissolved	7439-96-5	0.00016	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	29-Feb-2024	29-Feb-2024	1348589
Molybdenum, dissolved	7439-98-7	0.000242	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Potassium, dissolved	7440-09-7	1.67	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Rubidium, dissolved	7440-17-7	0.00072	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Selenium, dissolved	7782-49-2	0.000373	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silicon, dissolved	7440-21-3	8.02	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sodium, dissolved	7440-23-5	4.49	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Strontium, dissolved	7440-24-6	0.163	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sulfur, dissolved	7704-34-9	14.3	0.50	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Uranium, dissolved	7440-61-1	0.000869	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zinc, dissolved	7440-66-6	0.0128	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	29-Feb-2024	1348589
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	26-Feb-2024	1344308
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Feb-2024	1344348
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	29-Feb-2024	29-Feb-2024	1348571

Analytical Results

WT2404034-009

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 23-Feb-2024 12:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	27-Feb-2024	1344335
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336

Analytical Results

WT2404034-009

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 23-Feb-2024 12:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	27-Feb-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	27-Feb-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	27-Feb-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	27-Feb-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.8	1.0	%	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344483
Dichlorotoluene, 3,4-	95-75-0	111	1.0	%	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.6	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Difluorobenzene, 1,4-	540-36-3	97.5	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1-	90-12-0	0.019	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 1+2-	----	0.043	0.015	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Methylnaphthalene, 2-	91-57-6	0.024	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	120	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Naphthalene-d8	1146-65-2	115	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phenanthrene-d10	1517-22-2	109	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344484
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072

Analytical Results

WT2404034-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 23-Feb-2024 12:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	88.6	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Nitrobenzene-d5	4165-60-0	94.3	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Terphenyl-d14, p-	1718-51-0	77.6	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	107	0.20	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2404034-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 23-Feb-2024 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	7.34	0.50	mg/L	E235.Cl/WT	26-Feb-2024	27-Feb-2024	1344909
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	27-Feb-2024	27-Feb-2024	1344976
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0031	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Arsenic, dissolved	7440-38-2	0.00035	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Barium, dissolved	7440-39-3	0.0520	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Boron, dissolved	7440-42-8	0.011	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308

Analytical Results

WT2404034-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 23-Feb-2024 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Calcium, dissolved	7440-70-2	101	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Copper, dissolved	7440-50-8	0.00067	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lithium, dissolved	7439-93-2	0.0035	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Magnesium, dissolved	7439-95-4	46.2	0.0050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Manganese, dissolved	7439-96-5	0.00791	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	29-Feb-2024	29-Feb-2024	1348589
Molybdenum, dissolved	7439-98-7	0.000380	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Potassium, dissolved	7440-09-7	1.29	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Rubidium, dissolved	7440-17-7	0.00055	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Selenium, dissolved	7782-49-2	0.000089	0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silicon, dissolved	7440-21-3	7.90	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sodium, dissolved	7440-23-5	5.03	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Strontium, dissolved	7440-24-6	0.146	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sulfur, dissolved	7704-34-9	8.61	0.50	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Uranium, dissolved	7440-61-1	0.00109	0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Vanadium, dissolved	7440-62-2	0.00058	0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	29-Feb-2024	1348589
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	26-Feb-2024	1344308
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Feb-2024	1344348
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	29-Feb-2024	29-Feb-2024	1348571
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335

Analytical Results

WT2404034-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 23-Feb-2024 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	27-Feb-2024	1344335
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344972
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	27-Feb-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344972
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	27-Feb-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344972

Analytical Results

WT2404034-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 23-Feb-2024 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	27-Feb-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	27-Feb-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344972
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	81.0	1.0	%	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344972
Dichlorotoluene, 3,4-	95-75-0	103	1.0	%	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	99.5	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Difluorobenzene, 1,4-	540-36-3	98.4	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Benzo(a)pyrene	50-32-8	<0.0075 DLM	0.0075	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Benzo(b+j)fluoranthene	n/a	0.024	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Benzo(g,h,i)perylene	191-24-2	0.023	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Benzo(k)fluoranthene	207-08-9	0.012	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Indeno(1,2,3-c,d)pyrene	193-39-5	0.024	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Methylnaphthalene, 1-	90-12-0	0.014	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Methylnaphthalene, 1+2-	----	0.032	0.015	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Methylnaphthalene, 2-	91-57-6	0.018	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Pyrene	129-00-0	0.020	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	123	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Naphthalene-d8	1146-65-2	117	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Phenanthrene-d10	1517-22-2	112	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072

Analytical Results

WT2404034-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW3-20

Client sampling date / time: 23-Feb-2024 13:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	88.3	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Nitrobenzene-d5	4165-60-0	91.7	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Terphenyl-d14, p-	1718-51-0	69.5	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	100	0.20	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2404034-011

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 23-Feb-2024 13:30

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients									
Chloride	16887-00-6	<0.50		0.50	mg/L	E235.Cl/WT	26-Feb-2024	27-Feb-2024	1344909
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	27-Feb-2024	27-Feb-2024	1344976
Dissolved Metals									
Aluminum, dissolved	7429-90-5	0.0046	RRV,	0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Antimony, dissolved	7440-36-0	<0.00010		0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Arsenic, dissolved	7440-38-2	<0.00010		0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Barium, dissolved	7440-39-3	0.00061	RRV,	0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Beryllium, dissolved	7440-41-7	<0.000020		0.000020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Bismuth, dissolved	7440-69-9	<0.000050		0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Boron, dissolved	7440-42-8	0.010	RRV,	0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cadmium, dissolved	7440-43-9	<0.0000050		0.0000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Calcium, dissolved	7440-70-2	0.091	RRV,	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cesium, dissolved	7440-46-2	<0.000010		0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Chromium, dissolved	7440-47-3	<0.00050		0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Cobalt, dissolved	7440-48-4	<0.00010		0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308

Analytical Results

WT2404034-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 23-Feb-2024 13:30

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals									
Copper, dissolved	7440-50-8	<0.00020		0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Iron, dissolved	7439-89-6	<0.010		0.010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lead, dissolved	7439-92-1	<0.000050		0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Lithium, dissolved	7439-93-2	<0.0010		0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Magnesium, dissolved	7439-95-4	0.0096	RRV.	0.0050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Manganese, dissolved	7439-96-5	<0.00010		0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	29-Feb-2024	29-Feb-2024	1348589
Molybdenum, dissolved	7439-98-7	<0.000050		0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Nickel, dissolved	7440-02-0	<0.00050		0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Phosphorus, dissolved	7723-14-0	<0.050		0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Potassium, dissolved	7440-09-7	<0.050		0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Rubidium, dissolved	7440-17-7	<0.00020		0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Selenium, dissolved	7782-49-2	<0.000050		0.000050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silicon, dissolved	7440-21-3	<0.050		0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Silver, dissolved	7440-22-4	<0.000010		0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sodium, dissolved	7440-23-5	0.090	RRV.	0.050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Strontium, dissolved	7440-24-6	0.00027	RRV.	0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Sulfur, dissolved	7704-34-9	<0.50		0.50	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tellurium, dissolved	13494-80-9	<0.00020		0.00020	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thallium, dissolved	7440-28-0	<0.000010		0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Thorium, dissolved	7440-29-1	<0.00010		0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tin, dissolved	7440-31-5	<0.00010		0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Titanium, dissolved	7440-32-6	<0.00030		0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Tungsten, dissolved	7440-33-7	<0.00010		0.00010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Uranium, dissolved	7440-61-1	<0.000010		0.000010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Vanadium, dissolved	7440-62-2	<0.00050		0.00050	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zinc, dissolved	7440-66-6	<0.0010		0.0010	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Zirconium, dissolved	7440-67-7	<0.00030		0.00030	mg/L	E421/WT	26-Feb-2024	26-Feb-2024	1344308
Dissolved mercury filtration location	----	Field		-	-	EP509/WT	-	29-Feb-2024	1348589
Dissolved metals filtration location	----	Field		-	-	EP421/WT	-	26-Feb-2024	1344308
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A/WT	-	26-Feb-2024	1344348
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567/WT	29-Feb-2024	29-Feb-2024	1348571
Volatile Organic Compounds									
Acetone	67-64-1	<20		20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Benzene	71-43-2	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromodichloromethane	75-27-4	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromoform	75-25-2	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Bromomethane	74-83-9	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Carbon tetrachloride	56-23-5	<0.20		0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chlorobenzene	108-90-7	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Chloroform	67-66-3	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromochloromethane	124-48-1	<0.50		0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dibromoethane, 1,2-	106-93-4	<0.20		0.20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335

Analytical Results

WT2404034-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 23-Feb-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	27-Feb-2024	1344335
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344972
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	27-Feb-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344972
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	27-Feb-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344972
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	27-Feb-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	27-Feb-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344972
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	98.7	1.0	%	E601.SG/WT	26-Feb-2024	27-Feb-2024	1344972

Analytical Results

WT2404034-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 23-Feb-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	113	1.0	%	E581.F1-L/WT	26-Feb-2024	26-Feb-2024	1344336
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.2	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Difluorobenzene, 1,4-	540-36-3	97.5	1.0	%	E611D/WT	26-Feb-2024	26-Feb-2024	1344335
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	129	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Naphthalene-d8	1146-65-2	128	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Phenanthrene-d10	1517-22-2	122	0.1	%	E641A/WT	26-Feb-2024	27-Feb-2024	1344971
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<2.0	2.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.7	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Nitrobenzene-d5	4165-60-0	94.0	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072

Analytical Results

WT2404034-011

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 23-Feb-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	75.3	1.0	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dichlorophenol, 2,4-	120-83-2	<0.30	0.30	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Phenol	108-95-2	<0.50	0.50	µg/L	E655A/WT	26-Feb-2024	27-Feb-2024	1345072
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	105	0.20	%	E655A/WT	26-Feb-2024	27-Feb-2024	1345072

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

ALS Canada Ltd.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2404034**	Page	: 1 of 26
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 23-Feb-2024 15:00
PO	: 735-009459	Issue Date	: 29-Feb-2024 15:06
C-O-C number	: ----		
Sampler	: Keegan Cleghorn		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Hydrocarbons	QC-1344972-002	----	F4 (C34-C50)	----	E601.SG	155 % LCS-H	70.0-130%	Recovery greater than upper control limit
Phthalate Esters	QC-MRG3-1344189 002	----	bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	162 % LCS-H	50.0-140%	Recovery greater than upper control limit
Semi-Volatile Organics	QC-MRG3-1344189 002	----	Dinitrotoluene, 2,4-	121-14-2	E655A	164 % LCS-H	50.0-140%	Recovery greater than upper control limit
Semi-Volatile Organics	QC-MRG3-1344189 002	----	Dinitrotoluene, 2,6-	606-20-2	E655A	142 % LCS-H	50.0-140%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	*Description*
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Matrix Spike (MS) Recoveries								
Volatile Organic Compounds	Anonymous	Anonymous	Styrene	100-42-5	E611D	0.00 % K	60.0-140%	Recovery less than lower data quality objective

Result Qualifiers

Qualifier	*Description*
K	*Matrix Spike recovery outside ALS DQO due to sample matrix effects.*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AGW1	E567	23-Feb-2024	28-Feb-2024	28 days	5 days	✓	28-Feb-2024	28 days	5 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) APW1	E567	23-Feb-2024	28-Feb-2024	28 days	5 days	✓	28-Feb-2024	28 days	5 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW1-20	E567	23-Feb-2024	28-Feb-2024	28 days	5 days	✓	28-Feb-2024	28 days	5 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH213	E567	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH219	E567	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) DUP	E567	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) FB	E567	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW2-20	E567	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW3-20	E567	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW4-23	E567	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW5-23	E567	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] AGW1	E235.Cl	23-Feb-2024	26-Feb-2024	28 days	3 days	✓	27-Feb-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] APW1	E235.Cl	23-Feb-2024	26-Feb-2024	28 days	3 days	✓	27-Feb-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH213	E235.Cl	23-Feb-2024	26-Feb-2024	28 days	3 days	✓	27-Feb-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH219	E235.Cl	23-Feb-2024	26-Feb-2024	28 days	3 days	✓	27-Feb-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] DUP	E235.Cl	23-Feb-2024	26-Feb-2024	28 days	3 days	✓	27-Feb-2024	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] FB	E235.Cl	23-Feb-2024	26-Feb-2024	28 days	3 days	✓	27-Feb-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW1-20	E235.Cl	23-Feb-2024	26-Feb-2024	28 days	3 days	✓	27-Feb-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW2-20	E235.Cl	23-Feb-2024	26-Feb-2024	28 days	3 days	✓	27-Feb-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW3-20	E235.Cl	23-Feb-2024	26-Feb-2024	28 days	3 days	✓	27-Feb-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW4-23	E235.Cl	23-Feb-2024	26-Feb-2024	28 days	3 days	✓	27-Feb-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW5-23	E235.Cl	23-Feb-2024	26-Feb-2024	28 days	3 days	✓	27-Feb-2024	28 days	4 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap BH213	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap BH219	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap DUP	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap FB	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap MW2-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap MW3-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap MW4-23	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap MW5-23	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap AGW1	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap APW1	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓
Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap MW1-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) AGW1	E333	23-Feb-2024	27-Feb-2024	14 days	4 days	✓	27-Feb-2024	14 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) APW1	E333	23-Feb-2024	27-Feb-2024	14 days	4 days	✓	27-Feb-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) BH213	E333	23-Feb-2024	27-Feb-2024	14 days	4 days	✓	27-Feb-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) BH219	E333	23-Feb-2024	27-Feb-2024	14 days	4 days	✓	27-Feb-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) DUP	E333	23-Feb-2024	27-Feb-2024	14 days	4 days	✓	27-Feb-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) FB	E333	23-Feb-2024	27-Feb-2024	14 days	4 days	✓	27-Feb-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) MW1-20	E333	23-Feb-2024	27-Feb-2024	14 days	4 days	✓	27-Feb-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) MW2-20	E333	23-Feb-2024	27-Feb-2024	14 days	4 days	✓	27-Feb-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) MW3-20	E333	23-Feb-2024	27-Feb-2024	14 days	4 days	✓	27-Feb-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) MW4-23	E333	23-Feb-2024	27-Feb-2024	14 days	4 days	✓	27-Feb-2024	14 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
HDPE - total (sodium hydroxide) MW5-23	E333	23-Feb-2024	27-Feb-2024	14 days	4 days	✓	27-Feb-2024	14 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) AGW1	E509	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) APW1	E509	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH213	E509	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH219	E509	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) DUP	E509	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) FB	E509	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW1-20	E509	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW2-20	E509	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW3-20	E509	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW4-23	E509	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW5-23	E509	23-Feb-2024	29-Feb-2024	28 days	6 days	✓	29-Feb-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) AGW1	E421	23-Feb-2024	26-Feb-2024	180 days	3 days	✓	26-Feb-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) APW1	E421	23-Feb-2024	26-Feb-2024	180 days	3 days	✓	26-Feb-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH213	E421	23-Feb-2024	26-Feb-2024	180 days	3 days	✓	26-Feb-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH219	E421	23-Feb-2024	26-Feb-2024	180 days	3 days	✓	26-Feb-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) DUP	E421	23-Feb-2024	26-Feb-2024	180 days	3 days	✓	26-Feb-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) FB	E421	23-Feb-2024	26-Feb-2024	180 days	3 days	✓	26-Feb-2024	180 days	3 days	✓

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW1-20	E421	23-Feb-2024	26-Feb-2024	180 days	3 days	✓	26-Feb-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW2-20	E421	23-Feb-2024	26-Feb-2024	180 days	3 days	✓	26-Feb-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW3-20	E421	23-Feb-2024	26-Feb-2024	180 days	3 days	✓	26-Feb-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW4-23	E421	23-Feb-2024	26-Feb-2024	180 days	3 days	✓	26-Feb-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW5-23	E421	23-Feb-2024	26-Feb-2024	180 days	3 days	✓	26-Feb-2024	180 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
AGW1	E581.F1-L	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
APW1	E581.F1-L	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH213	E581.F1-L	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH219	E581.F1-L	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) DUP	E581.F1-L	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) FB	E581.F1-L	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW1-20	E581.F1-L	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW2-20	E581.F1-L	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW3-20	E581.F1-L	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW4-23	E581.F1-L	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW5-23	E581.F1-L	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) APW1	E601.SG	23-Feb-2024	23-Feb-2024	14 days	0 days	✓	26-Feb-2024	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW1-20	E601.SG	23-Feb-2024	23-Feb-2024	14 days	0 days	✓	26-Feb-2024	40 days	3 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
AGW1	E601.SG	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH213	E601.SG	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH219	E601.SG	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
DUP	E601.SG	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
FB	E601.SG	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW2-20	E601.SG	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW3-20	E601.SG	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23	E601.SG	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW5-23	E601.SG	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
BH213	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
BH219	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
DUP	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
FB	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW2-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW3-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW4-23	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW5-23	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
AGW1	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
APW1	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW1-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
BH213	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
BH219	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
DUP	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
FB	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW2-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW3-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW4-23	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap MW5-23	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap AGW1	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap APW1	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓
Phthalate Esters : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap MW1-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) APW1	E641A	23-Feb-2024	23-Feb-2024	14 days	0 days	✓	26-Feb-2024	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW1-20	E641A	23-Feb-2024	23-Feb-2024	14 days	0 days	✓	26-Feb-2024	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) AGW1	E641A	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) BH213	E641A	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) BH219	E641A	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
DUP	E641A	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
FB	E641A	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW2-20	E641A	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW3-20	E641A	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23	E641A	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW5-23	E641A	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
BH213	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
BH219	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
DUP	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
FB	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW2-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW3-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW4-23	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW5-23	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	27-Feb-2024	40 days	1 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
AGW1	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
APW1	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓
Semi-Volatile Organics : BNA (ON 625-511 list) by GC-MS										
Amber glass/Teflon lined cap										
MW1-20	E655A	23-Feb-2024	26-Feb-2024	7 days	3 days	✓	28-Feb-2024	40 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AGW1	E532A	23-Feb-2024	----	----	----		26-Feb-2024	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
APW1	E532A	23-Feb-2024	----	----	----		26-Feb-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH213	E532A	23-Feb-2024	----	----	----		26-Feb-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH219	E532A	23-Feb-2024	----	----	----		26-Feb-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
DUP	E532A	23-Feb-2024	----	----	----		26-Feb-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
FB	E532A	23-Feb-2024	----	----	----		26-Feb-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW1-20	E532A	23-Feb-2024	----	----	----		26-Feb-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW2-20	E532A	23-Feb-2024	----	----	----		26-Feb-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW3-20	E532A	23-Feb-2024	----	----	----		26-Feb-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW4-23	E532A	23-Feb-2024	----	----	----		26-Feb-2024	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW5-23	E532A	23-Feb-2024	----	----	----		26-Feb-2024	28 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
AGW1	E611D	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
APW1	E611D	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH213	E611D	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH219	E611D	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
DUP	E611D	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
FB	E611D	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW1-20	E611D	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW2-20	E611D	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW3-20	E611D	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW4-23	E611D	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW5-23	E611D	23-Feb-2024	26-Feb-2024	14 days	3 days	✓	26-Feb-2024	14 days	3 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1344336	1	17	5.8	5.0	✓
Chloride in Water by IC	E235.Cl	1344909	1	19	5.2	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1344348	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1348589	1	12	8.3	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1344308	1	20	5.0	5.0	✓
Total Cyanide	E333	1344976	1	17	5.8	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1344335	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
BNA (ON 625-511 list) by GC-MS	E655A	1344190	3	20	15.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1344336	1	17	5.8	5.0	✓
Chloride in Water by IC	E235.Cl	1344909	1	19	5.2	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1344348	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1348589	1	12	8.3	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1344308	1	20	5.0	5.0	✓
Oil & Grease by Gravimetry	E567	1346885	2	39	5.1	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	1342844	3	41	7.3	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1342843	3	47	6.3	5.0	✓
Total Cyanide	E333	1344976	1	17	5.8	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1344335	1	20	5.0	5.0	✓
Method Blanks (MB)							
BNA (ON 625-511 list) by GC-MS	E655A	1344190	3	20	15.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1344336	1	17	5.8	5.0	✓
Chloride in Water by IC	E235.Cl	1344909	1	19	5.2	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1344348	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1348589	1	12	8.3	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1344308	1	20	5.0	5.0	✓
Oil & Grease by Gravimetry	E567	1346885	2	39	5.1	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	1342844	3	41	7.3	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1342843	3	47	6.3	5.0	✓
Total Cyanide	E333	1344976	1	17	5.8	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1344335	1	20	5.0	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1344336	1	17	5.8	5.0	✓
Chloride in Water by IC	E235.Cl	1344909	1	19	5.2	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1344348	1	20	5.0	5.0	✓

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Mercury in Water by CVAAS	E509	1348589	1	12	8.3	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1344308	1	20	5.0	5.0	✓
Total Cyanide	E333	1344976	1	17	5.8	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1344335	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Total Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A ALS Environmental - Waterloo	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
Oil & Grease by Gravimetry	E567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hexane LVI GC-MS	E641A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
BNA (ON 625-511 list) by GC-MS	E655A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS.
F1-BTEX	EC580 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
BNA Extraction	EP655 ALS Environmental - Waterloo	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.

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QUALITY CONTROL REPORT

Work Order	: **WT2404034**	Page	: 1 of 23
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 23-Feb-2024 15:00
PO	: 735-009459	Date Analysis Commenced	: 23-Feb-2024
C-O-C number	: ----	Issue Date	: 29-Feb-2024 15:06
Sampler	: Keegan Cleghorn 519 725 3313		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Andrea Armstrong	Department Manager - Air Quality and Volatiles	Waterloo VOC, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Niki Goebel	Inorganics Analyst	Waterloo Metals, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 1344909)											
WT2404084-001	Anonymous	Chloride	16887-00-6	E235.Cl	5.00	mg/L	135	135	0.120%	20%	----
Cyanides (QC Lot: 1344976)											
TY2401486-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.0050	mg/L	<0.0050	<0.0050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1344308)											
WT2404034-001	APW1	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0031	0.0030	0.00002	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00300	0.00301	0.346%	20%	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0849	0.0849	0.0920%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	0.016	0.016	0.0003	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	50.5	52.4	3.59%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00052	0.00052	0.000003	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.157	0.157	0.0133%	20%	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0039	0.0041	0.0001	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	28.7	28.7	0.00901%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00502	0.00507	1.08%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000474	0.000467	0.000006	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	1.12	1.12	0.113%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00045	0.00047	0.00002	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	7.74	7.42	4.21%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1344308) - continued											
WT2404034-001	APW1	Sodium, dissolved	7440-23-5	E421	0.050	mg/L	6.73	6.62	1.54%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.548	0.548	0.109%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	12.6	12.4	1.76%	20%	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000270	0.000266	1.19%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	0.0013	0.0014	0.00002	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1348589)											
WT2404034-001	APW1	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1344348)											
VA24A3575-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	0.00059	0.00062	0.00003	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1344335)											
WT2403985-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<0.020 mg/L	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	0.00313 mg/L	2.92	0.21	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	0.00425 mg/L	4.01	5.81%	30%	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	0.00234 mg/L	2.17	0.17	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1344335) - continued											
WT2403985-001	Anonymous	Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<0.0010 mg/L	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.00030 mg/L	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.00030 mg/L	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<0.020 mg/L	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<0.020 mg/L	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1344335) - continued											
WT2403985-001	Anonymous	Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.00040 mg/L	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.00030 mg/L	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1344336)											
WT2403985-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients (QCLot: 1344909)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 1344976)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 1344308)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1344308) - continued						
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 1348589)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1344348)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1346885)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 1348571)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Volatile Organic Compounds (QCLot: 1344335)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1344335) - continued						
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1342843)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Hydrocarbons (QCLot: 1344336)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 1344483)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Hydrocarbons (QCLot: 1344972)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1342844)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1344484)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1344484) - continued						
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1344971)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Phthalate Esters (QCLot: 1344190)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Phthalate Esters (QCLot: 1345072)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Phthalate Esters (QCLot: 1347774)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	<2.0	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Phthalate Esters (QCLot: 1347774) - continued						
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	<0.20	----
Semi-Volatile Organics (QCLot: 1344190)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1345072)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1347774)						
Biphenyl	92-52-4	E655A	0.4	µg/L	<0.40	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 1344190)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Chlorinated Phenolics (QCLot: 1345072)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Chlorinated Phenolics (QCLot: 1347774)						
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	<0.30	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	<0.20	----
Non-Chlorinated Phenolics (QCLot: 1344190)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1345072)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1347774)						
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	<1.0	----
Phenol	108-95-2	E655A	0.5	µg/L	<0.50	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1344909)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	102	90.0	110	----
Cyanides (QCLot: 1344976)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	81.9	80.0	120	----
Dissolved Metals (QCLot: 1344308)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	104	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	99.9	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	105	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	101	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	97.2	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	99.5	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	98.5	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	97.3	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	96.3	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.0025 mg/L	97.2	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	101	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	98.2	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	98.6	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	95.5	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	97.3	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.0125 mg/L	97.4	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	110	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.0125 mg/L	98.4	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	103	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	97.6	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	103	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	101	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	102	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	97.6	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	98.8	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	90.0	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	104	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 1344308) - continued									
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.0125 mg/L	101	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	98.5	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	98.9	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	99.5	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	90.7	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	97.7	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.0125 mg/L	97.8	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	95.6	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	96.4	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	101	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	97.9	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	89.6	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	96.7	80.0	120	----
Speciated Metals (QCLot: 1344348)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	95.8	80.0	120	----
Aggregate Organics (QCLot: 1346885)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	100	70.0	130	----
Aggregate Organics (QCLot: 1348571)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	96.5	70.0	130	----
Volatile Organic Compounds (QCLot: 1344335)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	116	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	112	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	116	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	101	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	97.8	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	96.9	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1344335) - continued									
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	103	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	110	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	98.0	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	92.2	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	105	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	101	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	99.4	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	114	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	112	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	102	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	102	70.0	130	----
Hydrocarbons (QCLot: 1342843)									
F2 (C10-C16)	----	E601.SG	100	µg/L	3768 µg/L	105	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	7770.15 µg/L	113	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4145.96 µg/L	128	70.0	130	----
Hydrocarbons (QCLot: 1344336)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	107	80.0	120	----
Hydrocarbons (QCLot: 1344483)									
F2 (C10-C16)	----	E601.SG	100	µg/L	3768 µg/L	109	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Hydrocarbons (QCLot: 1344483) - continued									
F3 (C16-C34)	----	E601.SG	250	µg/L	7770.15 µg/L	112	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4145.96 µg/L	130	70.0	130	----
Hydrocarbons (QCLot: 1344972)									
F2 (C10-C16)	----	E601.SG	100	µg/L	3768 µg/L	125	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	7770.15 µg/L	130	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4145.96 µg/L	# 155	70.0	130	LCS-H
Polycyclic Aromatic Hydrocarbons (QCLot: 1342844)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	111	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	106	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	95.7	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	109	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	103	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	89.5	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	98.4	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	114	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	121	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	85.6	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	111	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	111	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	103	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	111	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	114	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	107	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	108	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	112	50.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1344484)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	105	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	102	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	92.5	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	100	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	103	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	86.9	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	112	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	118	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	121	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1344484) - continued									
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	91.8	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	107	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	106	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	101	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	101	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	102	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	97.8	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	105	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	108	50.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1344971)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	110	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	108	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	97.1	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	110	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	104	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	92.6	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	127	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	115	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	126	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	103	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	114	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	112	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	120	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	109	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	110	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	105	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	111	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	114	50.0	140	----
Phthalate Esters (QCLot: 1344190)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	# 162	50.0	140	LCS-H
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	96.7	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	103	50.0	140	----
Phthalate Esters (QCLot: 1345072)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	136	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	97.3	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Phthalate Esters (QCLot: 1345072) - continued									
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	98.0	50.0	140	----
Phthalate Esters (QCLot: 1347774)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E655A	2	µg/L	6.4 µg/L	125	50.0	140	----
Diethyl phthalate	84-66-2	E655A	0.2	µg/L	6.4 µg/L	96.8	50.0	140	----
Dimethyl phthalate	131-11-3	E655A	0.2	µg/L	6.4 µg/L	97.6	50.0	140	----
Semi-Volatile Organics (QCLot: 1344190)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	95.7	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	95.2	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	104	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	47.2	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	121	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	# 164	50.0	140	LCS-H
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	# 142	50.0	140	LCS-H
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	75.8	50.0	140	----
Semi-Volatile Organics (QCLot: 1345072)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	93.8	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	88.7	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	110	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	62.1	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	112	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	140	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	133	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	66.0	50.0	140	----
Semi-Volatile Organics (QCLot: 1347774)									
Biphenyl	92-52-4	E655A	0.4	µg/L	1.6 µg/L	95.5	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E655A	0.4	µg/L	1.6 µg/L	91.1	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E655A	0.4	µg/L	1.6 µg/L	92.4	50.0	140	----
Chloroaniline, 4-	106-47-8	E655A	0.4	µg/L	1.6 µg/L	75.4	30.0	130	----
Dichlorobenzidine, 3,3'-	91-94-1	E655A	0.4	µg/L	1.6 µg/L	105	30.0	130	----
Dinitrotoluene, 2,4-	121-14-2	E655A	0.4	µg/L	1.6 µg/L	130	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E655A	0.4	µg/L	1.6 µg/L	110	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E655A	0.4	µg/L	1.6 µg/L	74.1	50.0	140	----
Chlorinated Phenolics (QCLot: 1344190)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	89.2	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Chlorinated Phenolics (QCLot: 1344190) - continued									
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	107	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	72.8	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	121	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	115	50.0	140	----
Chlorinated Phenolics (QCLot: 1345072)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	78.7	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	95.3	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	119	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	105	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	99.9	50.0	140	----
Chlorinated Phenolics (QCLot: 1347774)									
Chlorophenol, 2-	95-57-8	E655A	0.3	µg/L	4.8 µg/L	82.8	50.0	140	----
Dichlorophenol, 2,4-	120-83-2	E655A	0.3	µg/L	4.8 µg/L	106	50.0	140	----
Pentachlorophenol [PCP]	87-86-5	E655A	0.5	µg/L	4.8 µg/L	105	50.0	140	----
Trichlorophenol, 2,4,5-	95-95-4	E655A	0.2	µg/L	4.8 µg/L	112	50.0	140	----
Trichlorophenol, 2,4,6-	88-06-2	E655A	0.2	µg/L	4.8 µg/L	102	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1344190)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	84.3	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	51.3	50.0	140	----
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	102	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1345072)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	96.4	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	125	50.0	140	----
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	104	50.0	140	----
Non-Chlorinated Phenolics (QCLot: 1347774)									
Dimethylphenol, 2,4-	105-67-9	E655A	0.5	µg/L	4.8 µg/L	105	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E655A	1	µg/L	4.8 µg/L	93.5	50.0	140	----
Phenol	108-95-2	E655A	0.5	µg/L	4.8 µg/L	106	50.0	140	----

Qualifiers

Qualifier	Description
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1344909)										
WT2404084-001	Anonymous	Chloride	16887-00-6	E235.Cl	1050 mg/L	1000 mg/L	105	75.0	125	----
Cyanides (QCLot: 1344976)										
TY2401486-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.209 mg/L	0.25 mg/L	83.4	75.0	125	----
Dissolved Metals (QCLot: 1344308)										
WT2404034-002	MW1-20	Aluminum, dissolved	7429-90-5	E421	0.111 mg/L	0.1 mg/L	111	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0516 mg/L	0.05 mg/L	103	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0608 mg/L	0.05 mg/L	122	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.00534 mg/L	0.005 mg/L	107	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0467 mg/L	0.05 mg/L	93.3	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.050 mg/L	0.05 mg/L	100	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00518 mg/L	0.005 mg/L	104	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00251 mg/L	0.0025 mg/L	100	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0131 mg/L	0.0125 mg/L	105	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0124 mg/L	0.0125 mg/L	99.6	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0125 mg/L	0.0125 mg/L	100	70.0	130	----
		Iron, dissolved	7439-89-6	E421	0.049 mg/L	0.05 mg/L	97.7	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0236 mg/L	0.025 mg/L	94.5	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0142 mg/L	0.0125 mg/L	114	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.0129 mg/L	0.0125 mg/L	103	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0134 mg/L	0.0125 mg/L	107	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0245 mg/L	0.025 mg/L	98.0	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	0.613 mg/L	0.5 mg/L	122	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.00535 mg/L	0.005 mg/L	107	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0614 mg/L	0.05 mg/L	123	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	0.5 mg/L	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00373 mg/L	0.005 mg/L	74.6	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Dissolved Metals (QCLot: 1344308) - continued										
WT2404034-002	MW1-20	Strontium, dissolved	7440-24-6	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	2.5 mg/L	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.00539 mg/L	0.005 mg/L	108	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0503 mg/L	0.05 mg/L	100	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.00441 mg/L	0.005 mg/L	88.2	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0246 mg/L	0.025 mg/L	98.3	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0136 mg/L	0.0125 mg/L	109	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.00489 mg/L	0.005 mg/L	97.8	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	0.00025 mg/L	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0270 mg/L	0.025 mg/L	108	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.0248 mg/L	0.025 mg/L	99.0	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.00471 mg/L	0.005 mg/L	94.1	70.0	130	----
Dissolved Metals (QCLot: 1348589)										
WT2404034-002	MW1-20	Mercury, dissolved	7439-97-6	E509	0.0000975 mg/L	0.0001 mg/L	97.5	70.0	130	----
Speciated Metals (QCLot: 1344348)										
VA24A3575-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0387 mg/L	0.04 mg/L	96.7	70.0	130	----
Volatile Organic Compounds (QCLot: 1344335)										
WT2403985-001	Anonymous	Acetone	67-64-1	E611D	110 µg/L	100 µg/L	110	60.0	140	----
		Benzene	71-43-2	E611D	96.6 µg/L	100 µg/L	96.6	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Bromoform	75-25-2	E611D	99.6 µg/L	100 µg/L	99.6	60.0	140	----
		Bromomethane	74-83-9	E611D	98.4 µg/L	100 µg/L	98.4	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Chlorobenzene	108-90-7	E611D	94.6 µg/L	100 µg/L	94.6	60.0	140	----
		Chloroform	67-66-3	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	95.8 µg/L	100 µg/L	95.8	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	95.7 µg/L	100 µg/L	95.7	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	93.2 µg/L	100 µg/L	93.2	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	92.4 µg/L	100 µg/L	92.4	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	73.4 µg/L	100 µg/L	73.4	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	96.6 µg/L	100 µg/L	96.6	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	99.7 µg/L	100 µg/L	99.7	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	96.6 µg/L	100 µg/L	96.6	60.0	140	----

Sub-Matrix: **Water**

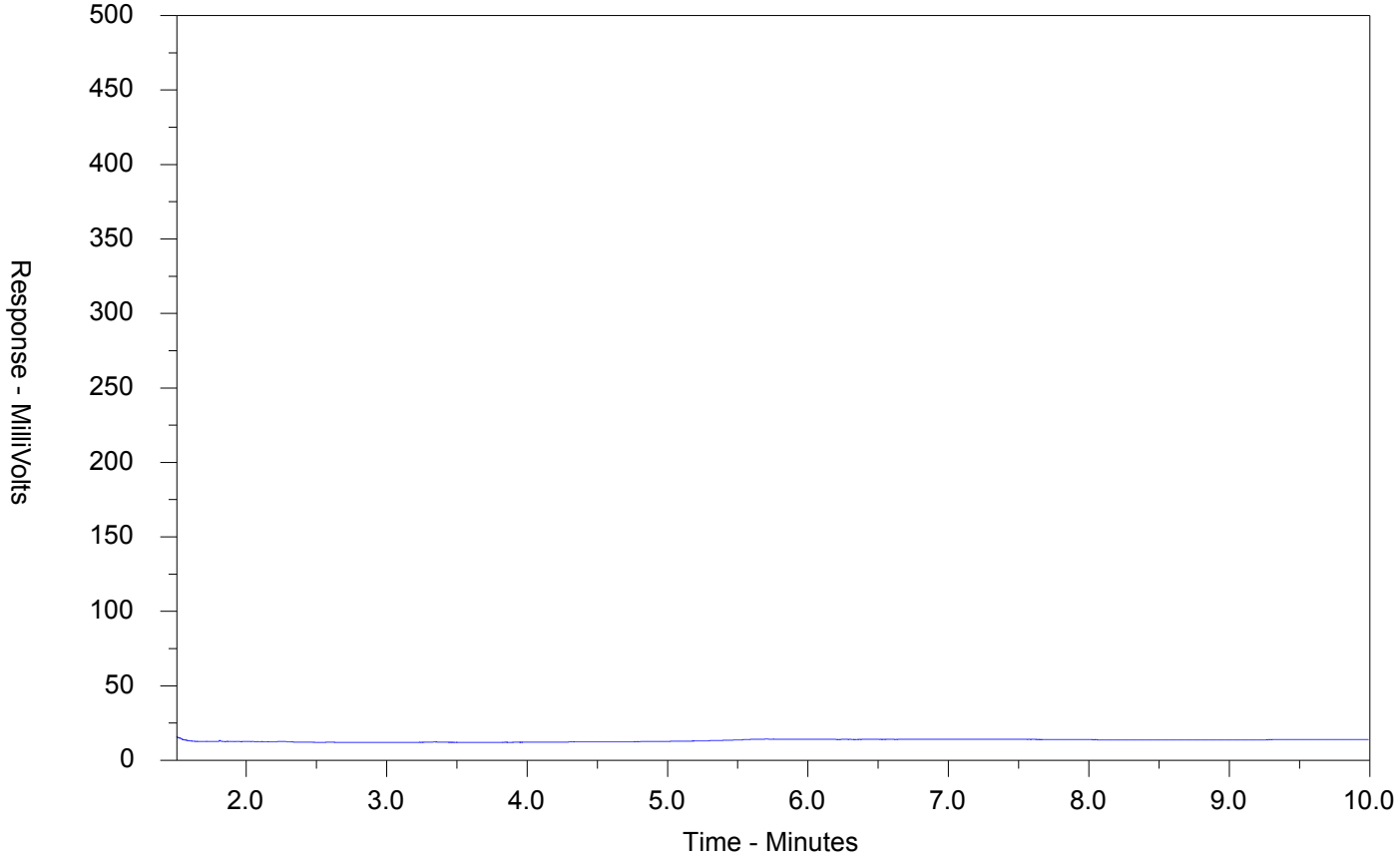
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1344335) - continued										
WT2403985-001	Anonymous	Dichloroethylene, cis-1,2-	156-59-2	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	97.4 µg/L	100 µg/L	97.4	60.0	140	----
		Dichloromethane	75-09-2	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	96.6 µg/L	100 µg/L	96.6	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	94.4 µg/L	100 µg/L	94.4	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	88.4 µg/L	100 µg/L	88.4	60.0	140	----
		Ethylbenzene	100-41-4	E611D	91.7 µg/L	100 µg/L	91.7	60.0	140	----
		Hexane, n-	110-54-3	E611D	94.7 µg/L	100 µg/L	94.7	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	99 µg/L	100 µg/L	99.2	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	96 µg/L	100 µg/L	95.7	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	95.3 µg/L	100 µg/L	95.3	60.0	140	----
		Styrene	100-42-5	E611D	0.0 µg/L	100 µg/L	0.00	60.0	140	K
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	96.8 µg/L	100 µg/L	96.8	60.0	140	----
		Toluene	108-88-3	E611D	91.5 µg/L	100 µg/L	91.5	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	99.3 µg/L	100 µg/L	99.3	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	97.6 µg/L	100 µg/L	97.6	60.0	140	----
		Trichloroethylene	79-01-6	E611D	99.6 µg/L	100 µg/L	99.6	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	97.6 µg/L	100 µg/L	97.6	60.0	140	----
		Vinyl chloride	75-01-4	E611D	91.4 µg/L	100 µg/L	91.4	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	140 µg/L	200 µg/L	70.2	60.0	140	----
		Xylene, o-	95-47-6	E611D	91.2 µg/L	100 µg/L	91.2	60.0	140	----
Hydrocarbons (QCLot: 1344336)										
WT2403985-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1570 µg/L	2000 µg/L	78.5	60.0	140	----

Qualifiers

Qualifier	Description
K	*Matrix Spike recovery outside ALS DQO due to sample matrix effects.*

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2404034-001-E601.SG
Client Sample ID: APW1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

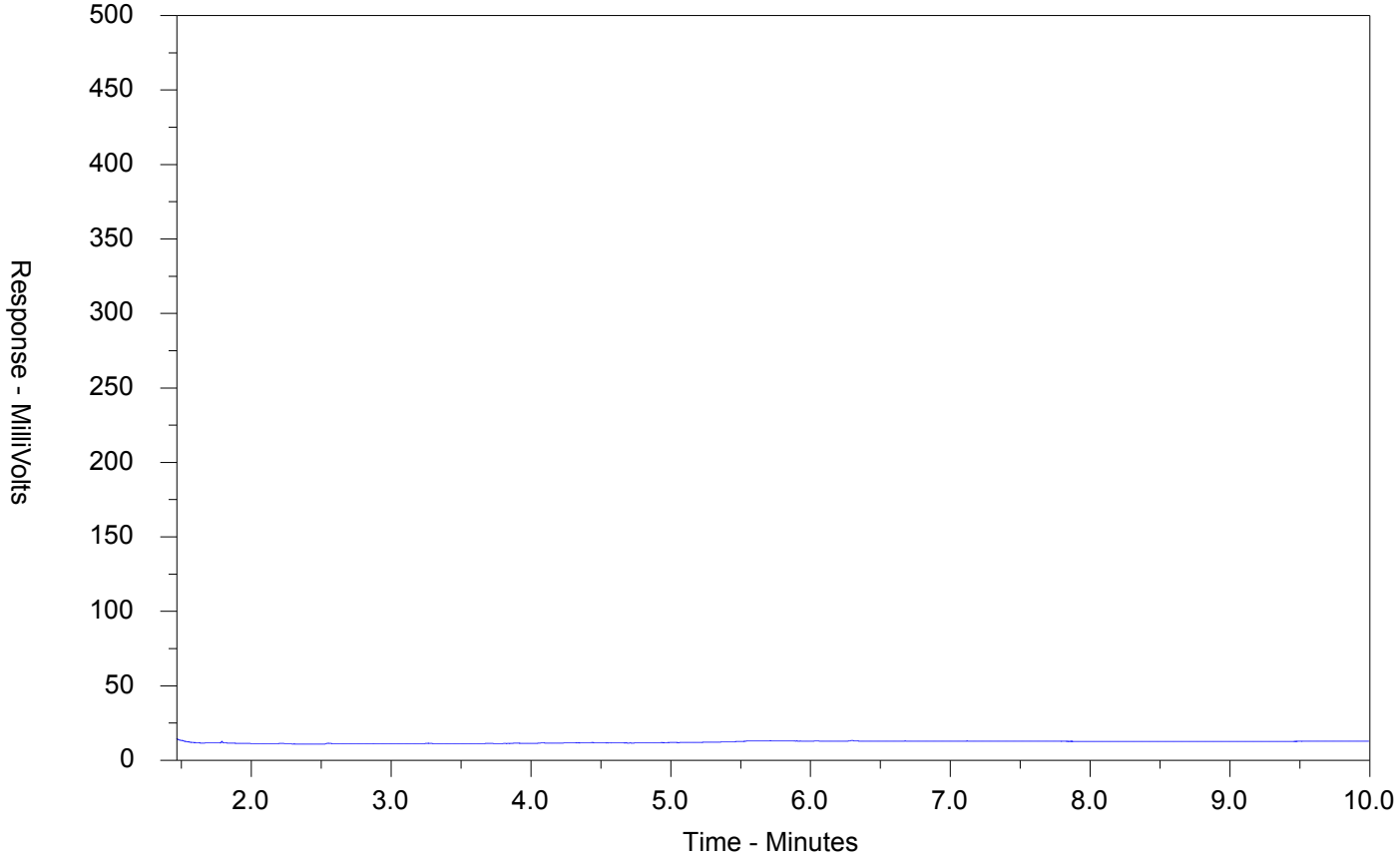
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2404034-002-E601.SG
Client Sample ID: MW1-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

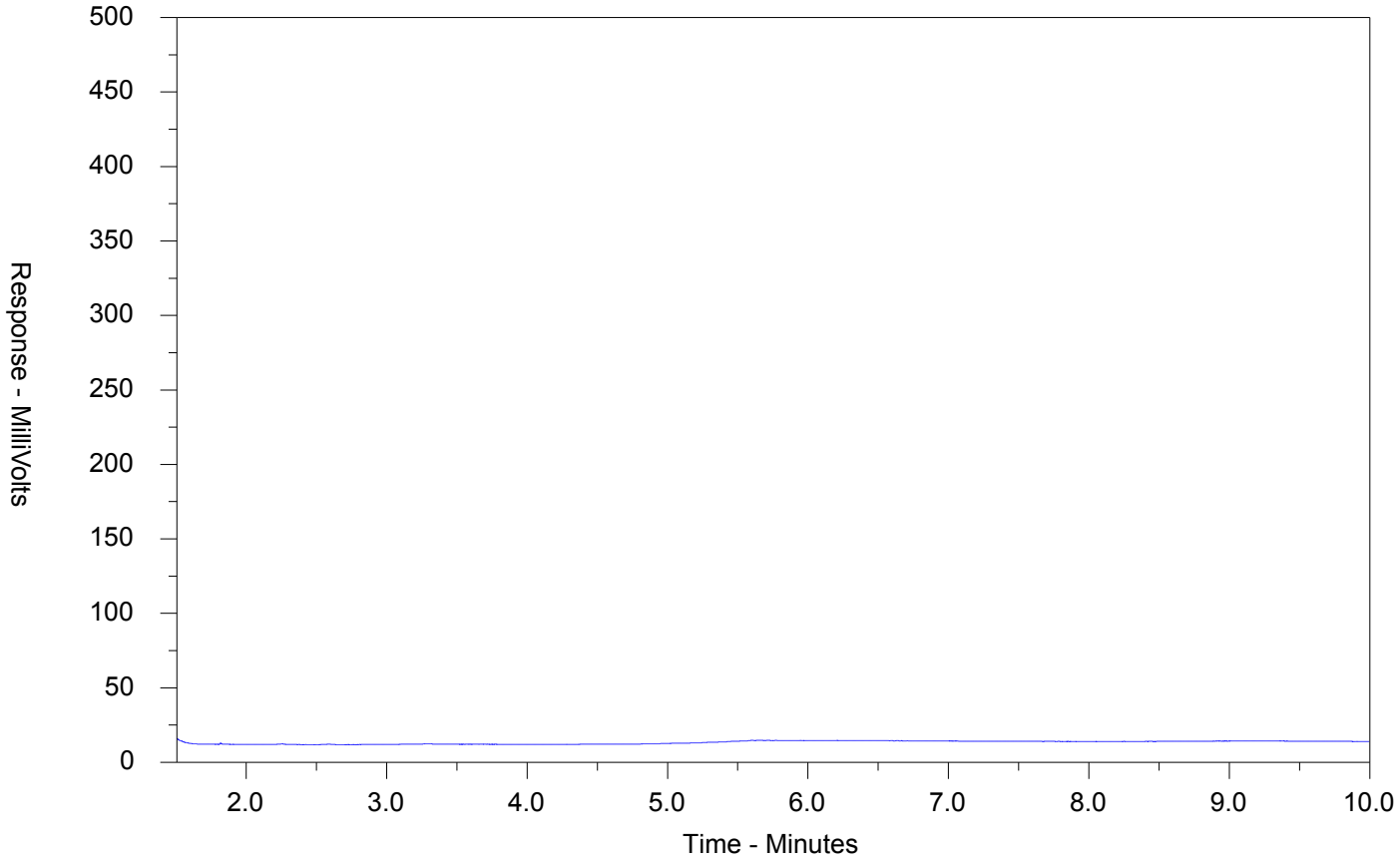
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2404034-003-E601.SG
Client Sample ID: AGW1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

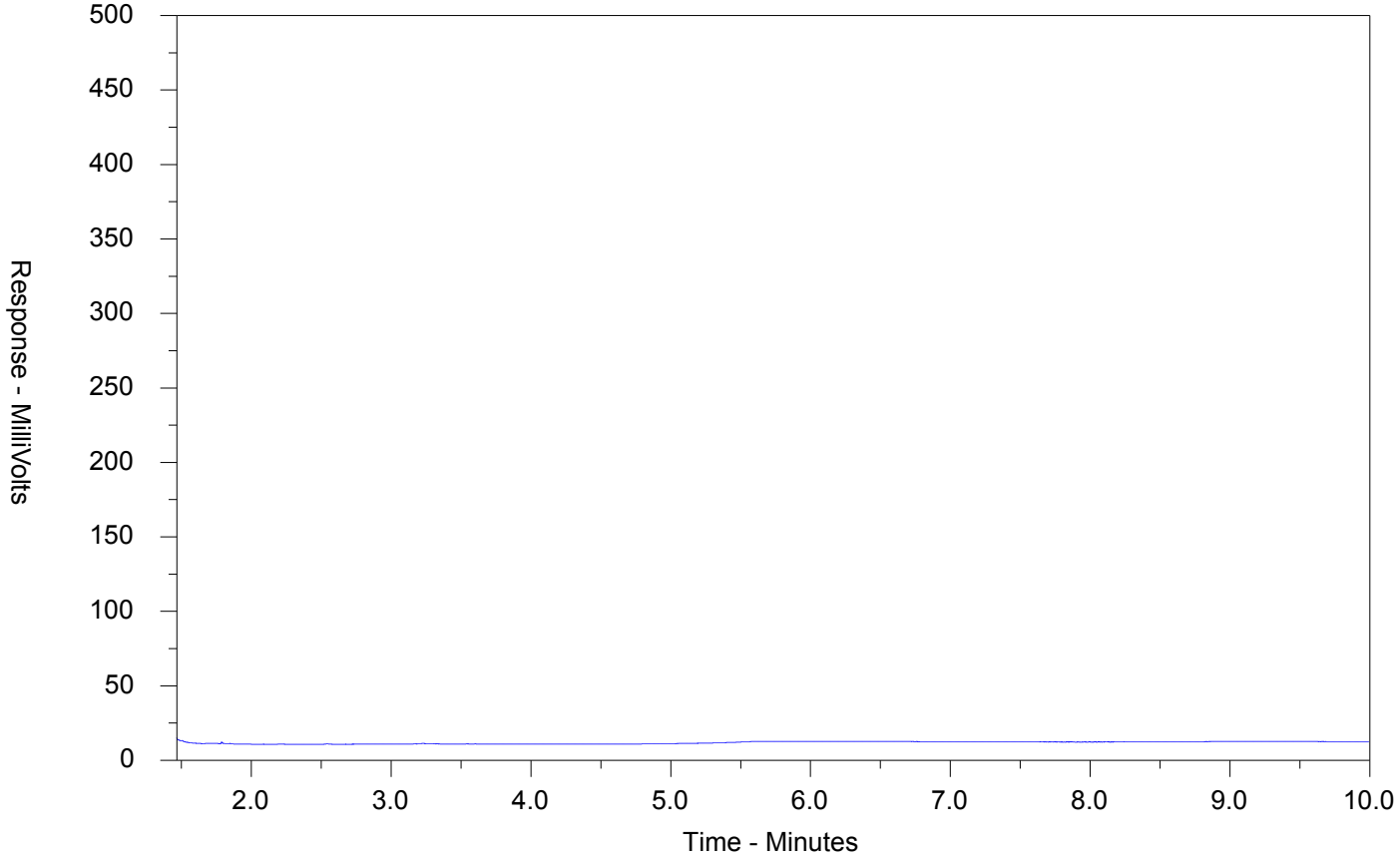
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2404034-004-E601.SG
Client Sample ID: MW2-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

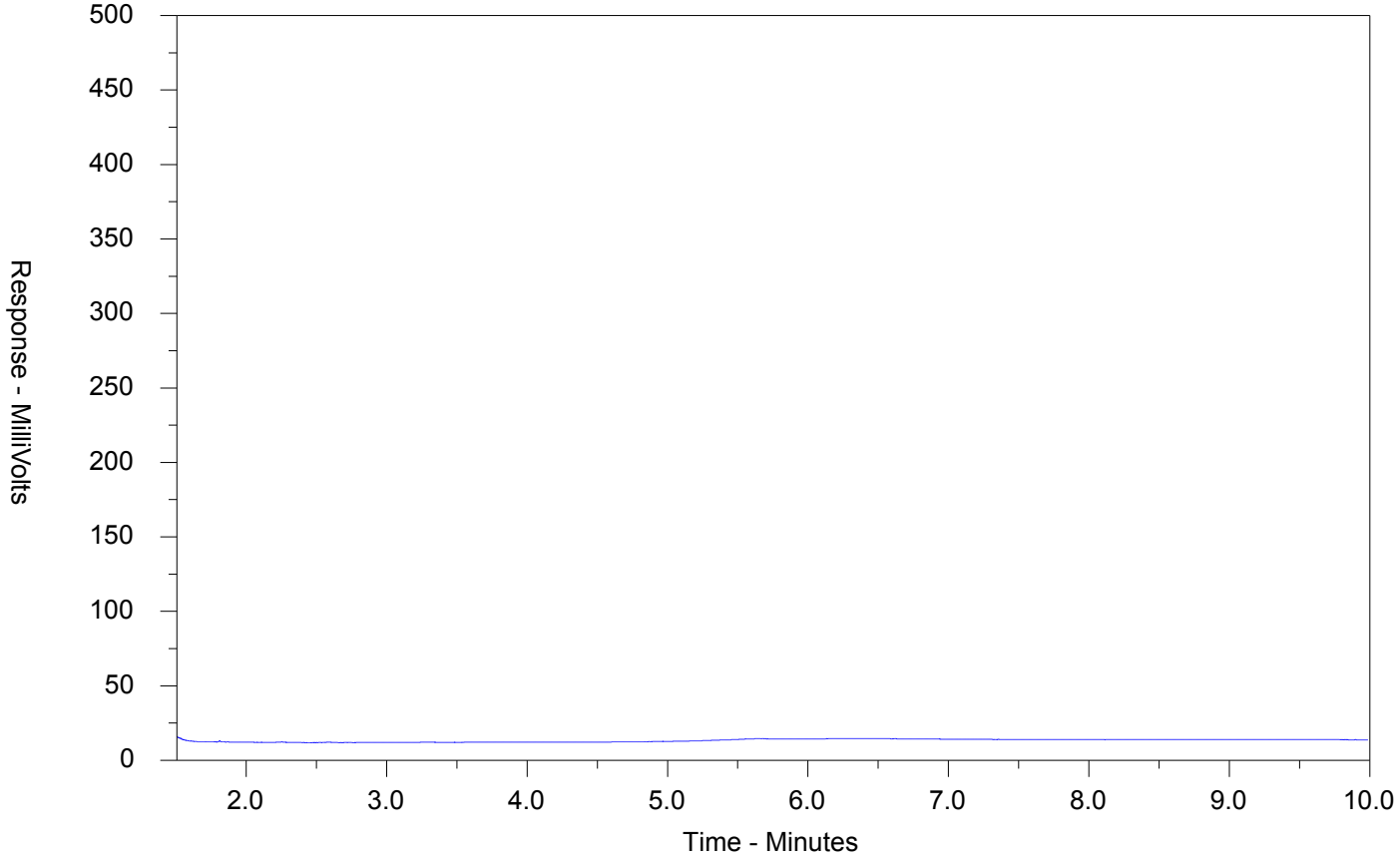
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2404034-005-E601.SG
Client Sample ID: DUP



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

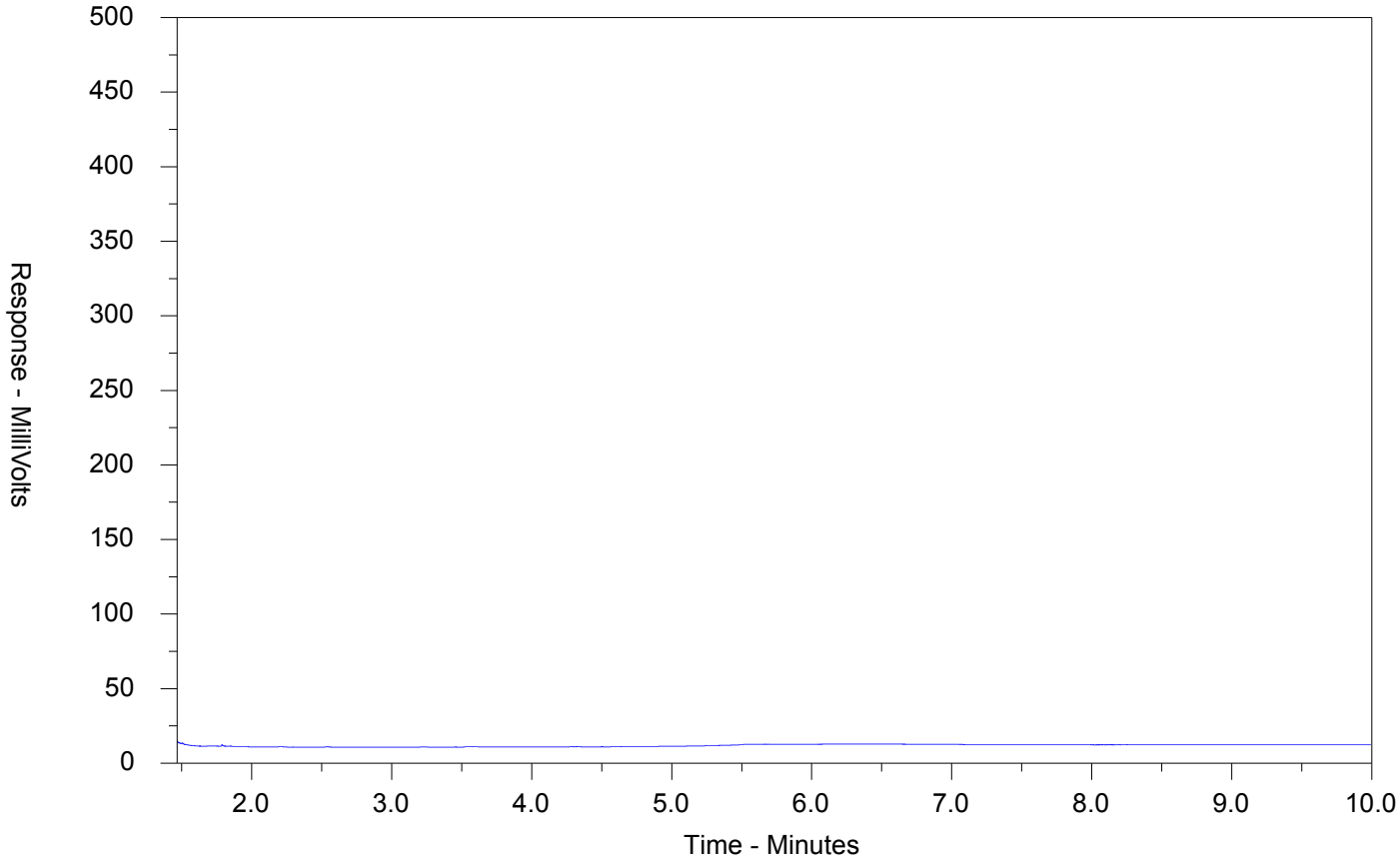
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2404034-006-E601.SG
Client Sample ID: MW5-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

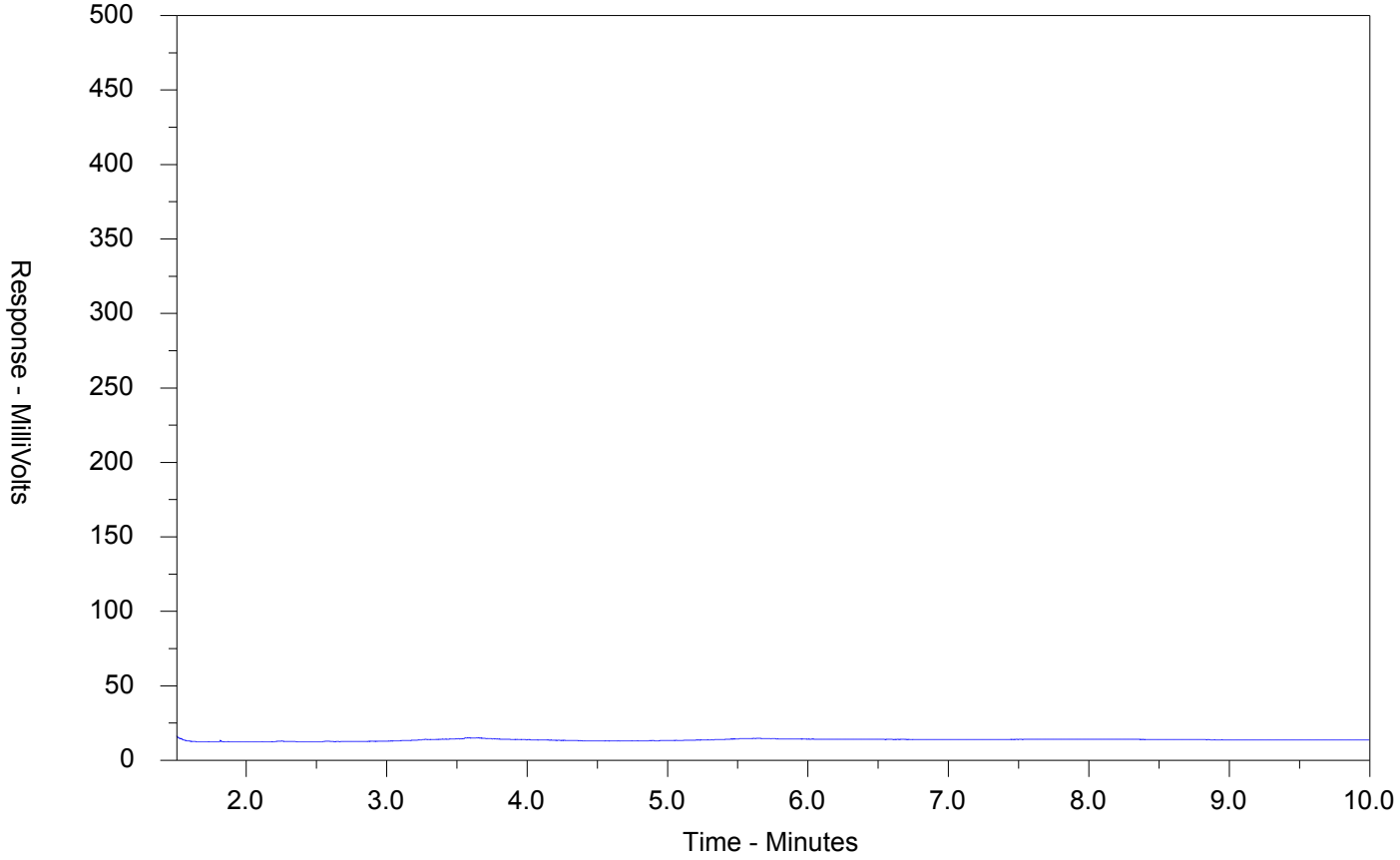
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2404034-007-E601.SG
Client Sample ID: MW4-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

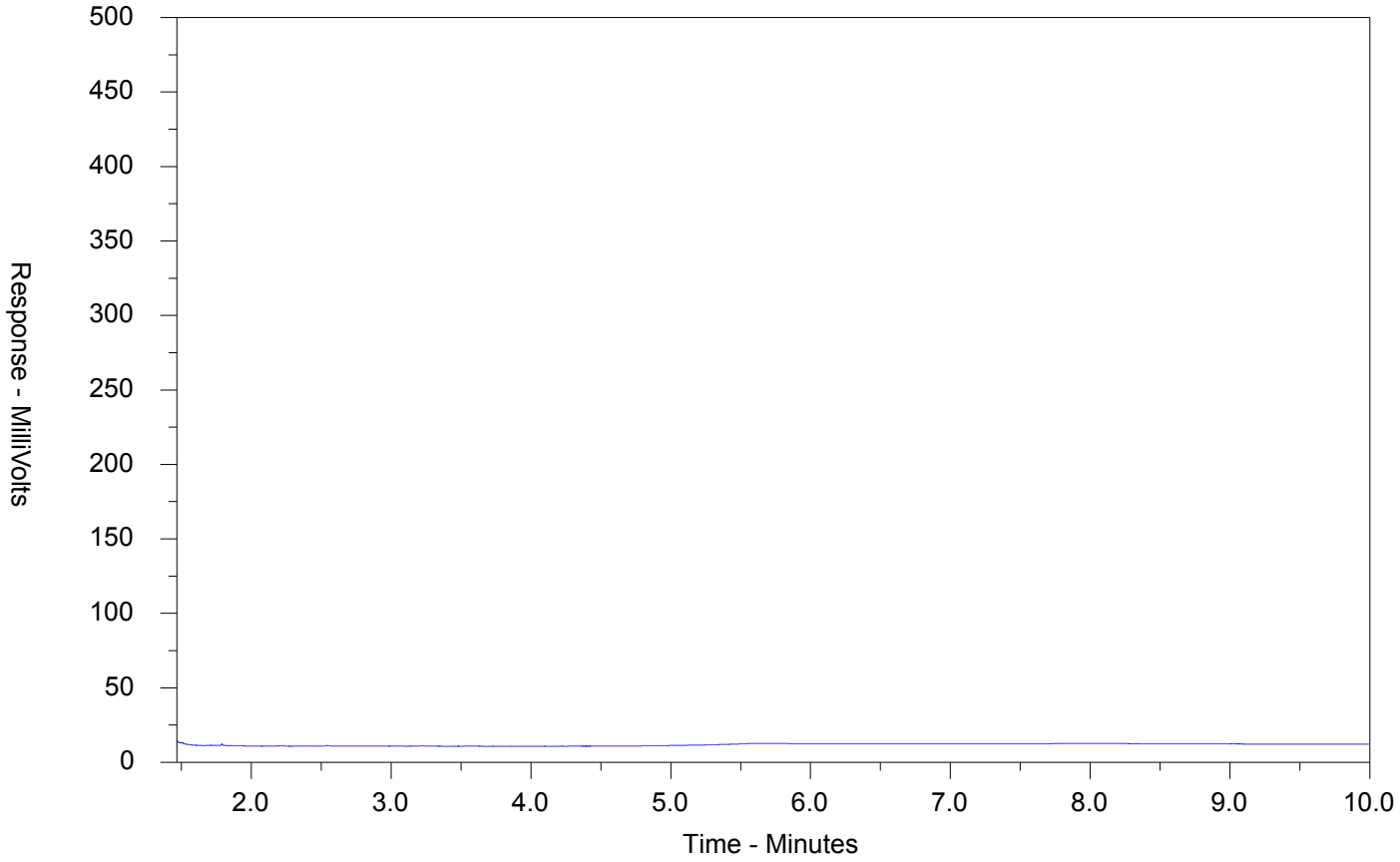
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2404034-008-E601.SG
Client Sample ID: BH213



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

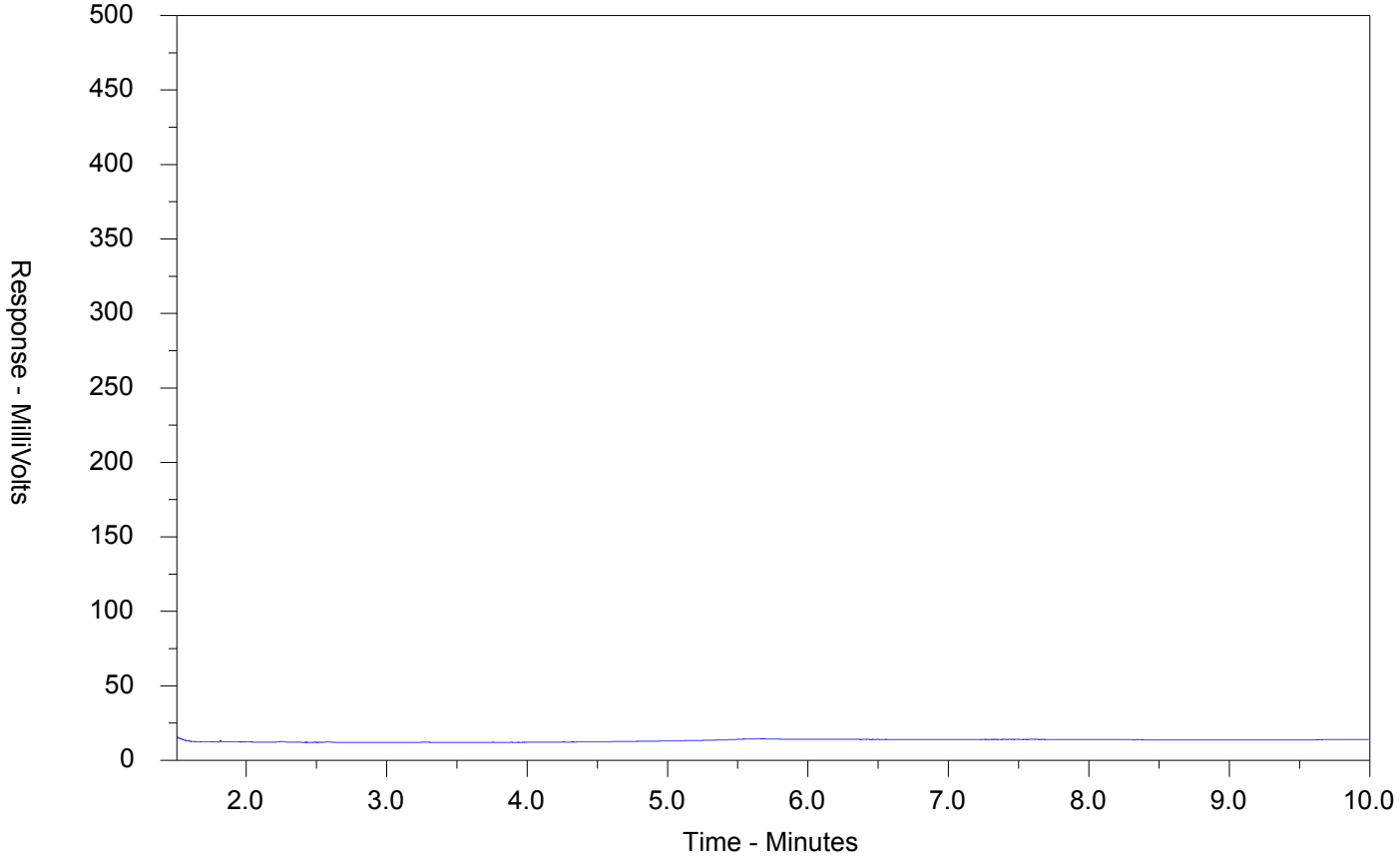
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2404034-009-E601.SG
Client Sample ID: BH219



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

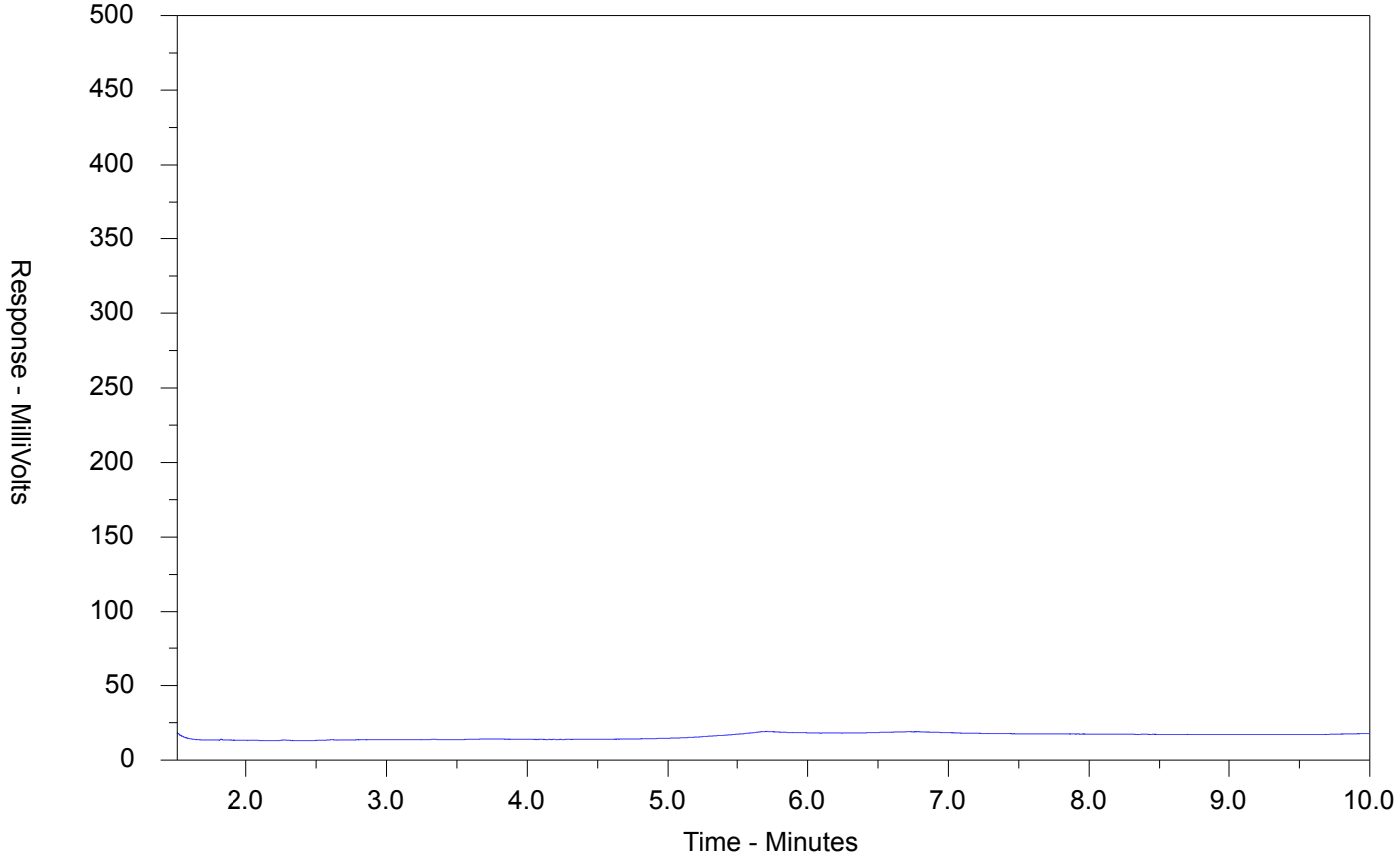
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2404034-010-E601.SG
Client Sample ID: MW3-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

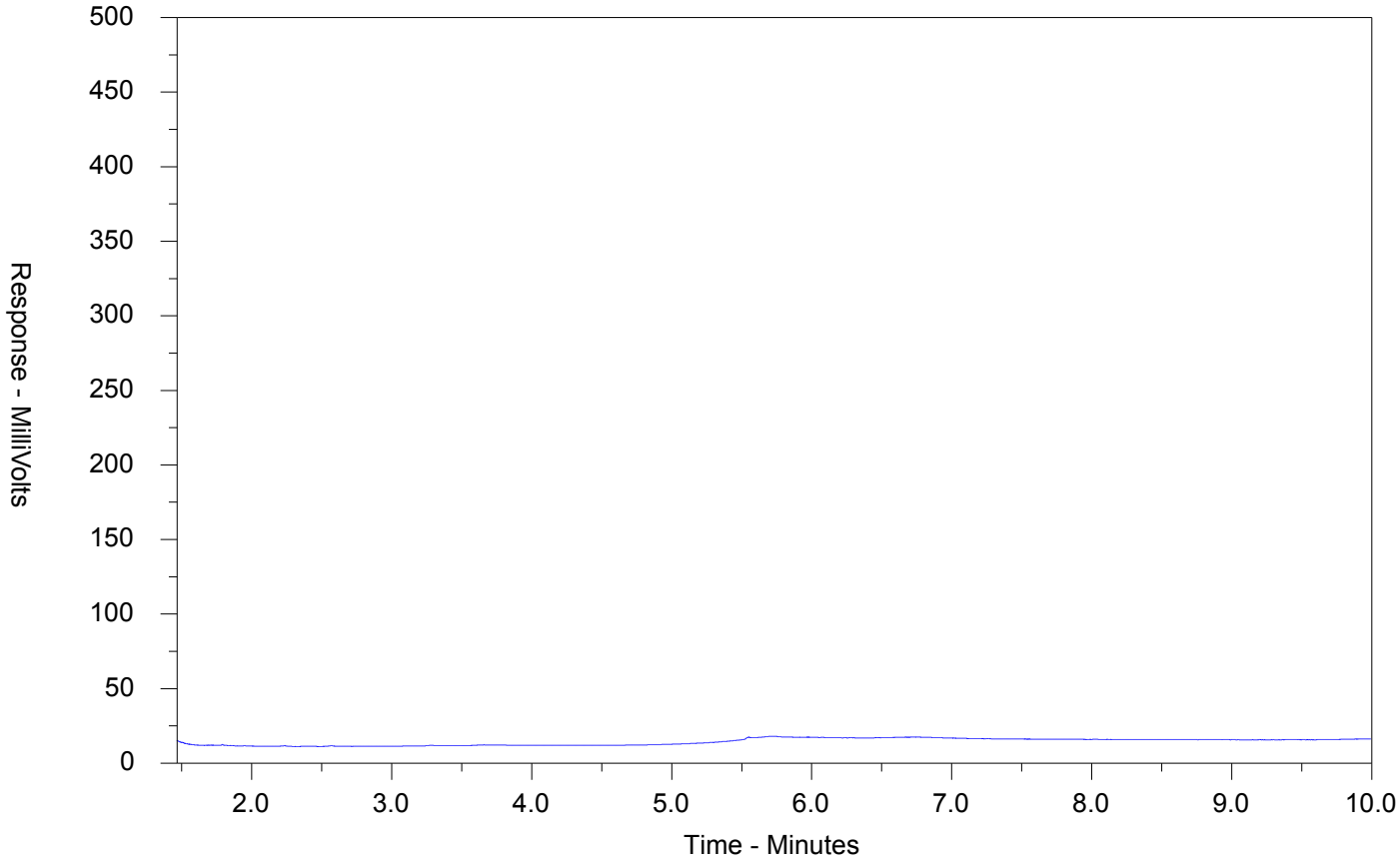
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2404034-011-E601.SG
Client Sample ID: FB



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

COC Number: 20-

Pa

Environmental Division
Waterloo
Work Order Reference
WT2404034

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: pascal.renella@ghd.com
Email 2: See SSOW/PO
Email 3:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge m
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge r
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge r
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge r
☐ Same day [E2] if received by 10am M-S - 200% rush surcl
fees may apply to rush resuests on weekends, statutory holi
routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accountspayableCDN@ghd.com
Email 2:

Project Information

ALS Account # / Quote #: GHDL100 / WT2022GHDL1000018
Job #: 11210029
PO / AFE: 735-009459
LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#:
Major/Minor Code: Routing Code:
Requisitioner:
Location:

ALS Lab Work Order # (lab use only): WT2404034
ALS Contact: Rick H
Sampler: K. Clenghorn

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	GROUNDWATER ANALYSIS	Dissolved Metals (Field Filter)	Dissolved Mercury (Field Filter)	Dissolved hexavalent Chromium (FF)	Total Cyanide	Total Oil and Grease	Chloride	VOC,PHC F1-F4	SVOCs (including PAHs)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED
	APWI	23-Feb-24	9 00	Water	13	R	R	R	R	R	R	R	R	R		
	MW1-20		9 30													
	AGWI		9 45													
	MW2-20		10 15													
	DUP		10 15													
	MW5-[redacted]-23		10 40													
	MW4-23		11 15													
	BH213		11 45													
	BH219		12 15													
	MW3-20		13 00													
	FB		13 30													

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO
Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				5.9	1.3	2.4	3

SHIPMENT RELEASE (client use)

Released by: [redacted] Date: Feb 23/24 Time: 14:30

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: [redacted] Date: Feb 23/24 Time: 15:0

REFER TO BA[illegible] FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

CN- 646

SC-F

05-359, 360

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2411821**	Page	: 1 of 41
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 10-May-2024 14:30
PO	: 735-0099459	Date Analysis Commenced	: 13-May-2024
C-O-C number	: ----	Issue Date	: 22-May-2024 15:19
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Andrea Armstrong	Department Manager - Air Quality and Volatiles	VOC, Waterloo, Ontario
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Kelly Fischer	Technical Specialist	Inorganics, Waterloo, Ontario
Kelly Fischer	Technical Specialist	Metals, Waterloo, Ontario
Niki Goebel	Inorganics Analyst	Metals, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Sample Comments

Sample	Client Id	*Comment*
WT2411821-002	MW-01	RRR: Detection limit raised due to bias low analyte response in continuing calibration standard.
WT2411821-004	MW-02	4-Chloroaniline not reportable for ALS Sample 004 MW-02 due to matrix and recovery issues.
WT2411821-004	MW-02	RRQC: Recoveries for 33-Dichlorobenzidine are outside ALS control limits. Detection limits in associated samples have been raised accordingly.
WT2411821-004	MW-02	RRR: No result for 4-Chloroaniline. Recovery for associated surrogate is below the 10% minimum.
WT2411821-005	MW5-23	RRR: Detection limit raised due to bias low analyte response in continuing calibration standard.
WT2411821-010	FB	RRQC/RRR: Recovery for 3,3-Dichlorobenzidine is below ALS control limits in the laboratory control sample. Reported non-detect results for associated samples have not been affected.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
DLUI	*Detection Limit Raised: Unknown interference generated an apparent false positive test result.*
RRR	*Refer to report comments for issues regarding this analysis.*
SFPR	*Suspected False Positive Result, based on detection in Lab Blanks and/or Field Blanks, or other known issues.*
SUR-ND	*Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.*

Analytical Results

WT2411821-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 10-May-2024 09:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.82	0.50	mg/L	E235.Cl/WT	13-May-2024	14-May-2024	1440468
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	13-May-2024	13-May-2024	1439596
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0011	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Arsenic, dissolved	7440-38-2	0.00522	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Barium, dissolved	7440-39-3	0.0838	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Calcium, dissolved	7440-70-2	49.2	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Copper, dissolved	7440-50-8	0.00026	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Iron, dissolved	7439-89-6	0.196	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lithium, dissolved	7439-93-2	0.0032	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Magnesium, dissolved	7439-95-4	27.2	0.0050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Manganese, dissolved	7439-96-5	0.00704	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	13-May-2024	15-May-2024	1439609
Molybdenum, dissolved	7439-98-7	0.000664	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Potassium, dissolved	7440-09-7	0.988	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Rubidium, dissolved	7440-17-7	0.00037	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Selenium, dissolved	7782-49-2	0.000158	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silicon, dissolved	7440-21-3	7.58	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sodium, dissolved	7440-23-5	6.12	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Strontium, dissolved	7440-24-6	0.372	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sulfur, dissolved	7704-34-9	8.82	0.50	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Uranium, dissolved	7440-61-1	0.000488	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zinc, dissolved	7440-66-6	0.0015	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-May-2024	1439609

Analytical Results

WT2411821-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 10-May-2024 09:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	13-May-2024	1439892
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	13-May-2024	1439726
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-May-2024	13-May-2024	1438464
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881

Analytical Results

WT2411821-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 10-May-2024 09:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	15-May-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	15-May-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	14-May-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	14-May-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	14-May-2024	15-May-2024	1440966
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.8	1.0	%	E601.SG/WT	14-May-2024	15-May-2024	1440966
Dichlorotoluene, 3,4-	95-75-0	80.2	1.0	%	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	106	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Difluorobenzene, 1,4-	540-36-3	105	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	102	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene-d8	1146-65-2	103	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene-d10	1517-22-2	112	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phthalate Esters								

Analytical Results

WT2411821-001

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: APW1

Client sampling date / time: 10-May-2024 09:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	96.0	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Nitrobenzene-d5	4165-60-0	97.2	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Terphenyl-d14, p-	1718-51-0	96.4	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	75.2	0.50	%	E625A/WT	13-May-2024	15-May-2024	1439458

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2411821-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-01

Client sampling date / time: 10-May-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	65.3 DLDS	2.50	mg/L	E235.Cl/WT	13-May-2024	14-May-2024	1440468
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	13-May-2024	13-May-2024	1439596
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0032	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892

Analytical Results

WT2411821-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-01
Client sampling date / time: 10-May-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Arsenic, dissolved	7440-38-2	0.00014	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Barium, dissolved	7440-39-3	0.0750	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Boron, dissolved	7440-42-8	0.031	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cadmium, dissolved	7440-43-9	0.0000261	0.0000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Calcium, dissolved	7440-70-2	137	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Copper, dissolved	7440-50-8	0.00117	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lithium, dissolved	7439-93-2	0.0015	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Magnesium, dissolved	7439-95-4	38.2	0.0050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Manganese, dissolved	7439-96-5	0.00071	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	13-May-2024	15-May-2024	1439609
Molybdenum, dissolved	7439-98-7	0.000229	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Potassium, dissolved	7440-09-7	10.3	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Rubidium, dissolved	7440-17-7	0.00052	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Selenium, dissolved	7782-49-2	0.00126	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silicon, dissolved	7440-21-3	4.65	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sodium, dissolved	7440-23-5	33.1	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Strontium, dissolved	7440-24-6	0.162	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sulfur, dissolved	7704-34-9	17.0	0.50	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thallium, dissolved	7440-28-0	0.000012	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Uranium, dissolved	7440-61-1	0.000409	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zinc, dissolved	7440-66-6	0.0084	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-May-2024	1439609
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	13-May-2024	1439892
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	13-May-2024	1439726
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-May-2024	13-May-2024	1438464

Analytical Results

WT2411821-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-01
Client sampling date / time: 10-May-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	13-May-2024	13-May-2024	1439882

Analytical Results

WT2411821-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-01

Client sampling date / time: 10-May-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	15-May-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	15-May-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	14-May-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	14-May-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	14-May-2024	15-May-2024	1440966
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.9	1.0	%	E601.SG/WT	14-May-2024	15-May-2024	1440966
Dichlorotoluene, 3,4-	95-75-0	75.6	1.0	%	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	108	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Difluorobenzene, 1,4-	540-36-3	103	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(b+j)fluoranthene	n/a	0.011	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(g,h,i)perylene	191-24-2	0.060	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Indeno(1,2,3-c,d)pyrene	193-39-5	0.035	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1-	90-12-0	0.040	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1+2-	----	0.089	0.015	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 2-	91-57-6	0.049	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Pyrene	129-00-0	0.023	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	100	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene-d8	1146-65-2	100.0	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<1.20 RRR	1.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458

Analytical Results

WT2411821-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-01
Client sampling date / time: 10-May-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.6	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Nitrobenzene-d5	4165-60-0	97.9	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Terphenyl-d14, p-	1718-51-0	101	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	77.3	0.50	%	E625A/WT	13-May-2024	15-May-2024	1439458

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2411821-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 10-May-2024 10:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	22.7	0.50	mg/L	E235.Cl/WT	13-May-2024	14-May-2024	1440468
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	13-May-2024	13-May-2024	1439596
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0035	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Arsenic, dissolved	7440-38-2	0.00326	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Barium, dissolved	7440-39-3	0.0570	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892

Analytical Results

WT2411821-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 10-May-2024 10:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Calcium, dissolved	7440-70-2	72.5	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cobalt, dissolved	7440-48-4	0.00012	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Copper, dissolved	7440-50-8	0.00172	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Iron, dissolved	7439-89-6	0.693	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lead, dissolved	7439-92-1	0.000064	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lithium, dissolved	7439-93-2	0.0040	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Magnesium, dissolved	7439-95-4	39.9	0.0050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Manganese, dissolved	7439-96-5	0.0175	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	13-May-2024	15-May-2024	1439609
Molybdenum, dissolved	7439-98-7	0.000432	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Potassium, dissolved	7440-09-7	1.10	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Rubidium, dissolved	7440-17-7	0.00023	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silicon, dissolved	7440-21-3	9.58	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sodium, dissolved	7440-23-5	7.66	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Strontium, dissolved	7440-24-6	0.141	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sulfur, dissolved	7704-34-9	16.1	0.50	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Titanium, dissolved	7440-32-6	<0.00040 DLUI,	0.00040	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Uranium, dissolved	7440-61-1	0.000187	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zinc, dissolved	7440-66-6	0.0279	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-May-2024	1439609
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	13-May-2024	1439892
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	13-May-2024	1439726
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-May-2024	13-May-2024	1439401
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881

Analytical Results

WT2411821-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 10-May-2024 10:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	15-May-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	15-May-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966

Analytical Results

WT2411821-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 10-May-2024 10:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	14-May-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	14-May-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	14-May-2024	15-May-2024	1440966
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	93.2	1.0	%	E601.SG/WT	14-May-2024	15-May-2024	1440966
Dichlorotoluene, 3,4-	95-75-0	76.4	1.0	%	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	107	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Difluorobenzene, 1,4-	540-36-3	104	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	97.8	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene-d8	1146-65-2	103	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene-d10	1517-22-2	117	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458

Analytical Results

WT2411821-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AGW1

Client sampling date / time: 10-May-2024 10:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	88.2	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Nitrobenzene-d5	4165-60-0	85.5	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Terphenyl-d14, p-	1718-51-0	92.6	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	67.9	0.50	%	E625A/WT	13-May-2024	15-May-2024	1439458

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2411821-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 10-May-2024 10:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	12.5 DLDS	2.50	mg/L	E235.Cl/WT	13-May-2024	14-May-2024	1440468
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	13-May-2024	13-May-2024	1439596
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0039	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Antimony, dissolved	7440-36-0	0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Arsenic, dissolved	7440-38-2	0.00144	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Barium, dissolved	7440-39-3	0.138	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Boron, dissolved	7440-42-8	0.142	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cadmium, dissolved	7440-43-9	0.000221	0.0000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Calcium, dissolved	7440-70-2	132	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cobalt, dissolved	7440-48-4	0.00062	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892

Analytical Results

WT2411821-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-02
Client sampling date / time: 10-May-2024 10:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Copper, dissolved	7440-50-8	0.0275	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lithium, dissolved	7439-93-2	0.0016	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Magnesium, dissolved	7439-95-4	49.6	0.0050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Manganese, dissolved	7439-96-5	0.0788	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	13-May-2024	15-May-2024	1439609
Molybdenum, dissolved	7439-98-7	0.000166	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Nickel, dissolved	7440-02-0	0.00786	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Phosphorus, dissolved	7723-14-0	0.111	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Potassium, dissolved	7440-09-7	114	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Rubidium, dissolved	7440-17-7	0.0230	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Selenium, dissolved	7782-49-2	0.000165	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silicon, dissolved	7440-21-3	5.08	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sodium, dissolved	7440-23-5	12.2	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Strontium, dissolved	7440-24-6	0.182	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sulfur, dissolved	7704-34-9	15.5	0.50	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thallium, dissolved	7440-28-0	0.000102	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Uranium, dissolved	7440-61-1	0.000670	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zinc, dissolved	7440-66-6	0.0471	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-May-2024	1439609
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	13-May-2024	1439892
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	13-May-2024	1439726
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-May-2024	13-May-2024	1439401
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881

Analytical Results

WT2411821-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-02
Client sampling date / time: 10-May-2024 10:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	15-May-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	15-May-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	14-May-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	14-May-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	14-May-2024	15-May-2024	1440966
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.4	1.0	%	E601.SG/WT	14-May-2024	15-May-2024	1440966

Analytical Results

WT2411821-004

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW-02

Client sampling date / time: 10-May-2024 10:25

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates									
Dichlorotoluene, 3,4-	95-75-0	70.5		1.0	%	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	106		1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Difluorobenzene, 1,4-	540-36-3	104		1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Acenaphthylene	208-96-8	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Anthracene	120-12-7	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benz(a)anthracene	56-55-3	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(a)pyrene	50-32-8	<0.0050		0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(b+j)fluoranthene	n/a	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(g,h,i)perylene	191-24-2	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(k)fluoranthene	207-08-9	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Chrysene	218-01-9	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Dibenz(a,h)anthracene	53-70-3	<0.0050		0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluoranthene	206-44-0	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluorene	86-73-7	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1-	90-12-0	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1+2-	----	<0.015		0.015	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 2-	91-57-6	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene	91-20-3	<0.050		0.050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene	85-01-8	<0.020		0.020	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Pyrene	129-00-0	<0.010		0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Polycyclic Aromatic Hydrocarbons Surrogates									
Chrysene-d12	1719-03-5	98.0		0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene-d8	1146-65-2	98.9		0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene-d10	1517-22-2	107		0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phthalate Esters									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60		0.60	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Diethyl phthalate	84-66-2	<0.20		0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dimethyl phthalate	131-11-3	<0.20		0.20	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Semi-Volatile Organics									
Biphenyl	92-52-4	<0.20		0.20	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.60	DLM,	0.60	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
bis(2-Chloroethyl) ether	111-44-4	<0.40		0.40	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Chloroaniline, 4-	106-47-8	N/R	RRR,	0.4	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Dichlorobenzidine, 3,3'-	91-94-1	<4.00	RRR,	4.00	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Dinitrotoluene, 2,4-	121-14-2	<0.60	DLM,	0.60	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.85		0.85	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Dinitrotoluene, 2,6-	606-20-2	<0.60	DLM,	0.60	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Trichlorobenzene, 1,2,4-	120-82-1	<0.40		0.40	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Semi-Volatile Organics Surrogates									
Fluorobiphenyl, 2-	321-60-8	106		1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Nitrobenzene-d5	4165-60-0	87.9		1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458

Analytical Results

WT2411821-004

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: MW-02
Client sampling date / time: 10-May-2024 10:25

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates									
Terphenyl-d14, p-	1718-51-0	102		1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Chlorinated Phenolics									
Chlorophenol, 2-	95-57-8	<0.30		0.30	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Dichlorophenol, 2,4-	120-83-2	<0.20		0.20	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Pentachlorophenol [PCP]	87-86-5	<0.80	DLM,	0.80	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Trichlorophenol, 2,4,5-	95-95-4	<0.20		0.20	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Trichlorophenol, 2,4,6-	88-06-2	<0.20		0.20	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Non-Chlorinated Phenolics									
Dimethylphenol, 2,4-	105-67-9	<0.50		0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrophenol, 2,4-	51-28-5	<1.6	DLM,	1.6	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Phenol	108-95-2	<0.80	DLM,	0.80	µg/L	E625A/WT	13-May-2024	22-May-2024	1439458
Phenolics Surrogates									
Tribromophenol, 2,4,6-	118-79-6	78.7		0.80	%	E625A/WT	13-May-2024	22-May-2024	1439458

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2411821-005

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 10-May-2024 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	6.68	0.50	mg/L	E235.Cl/WT	13-May-2024	14-May-2024	1440468
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	13-May-2024	13-May-2024	1439596
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0032	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Arsenic, dissolved	7440-38-2	0.00022	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Barium, dissolved	7440-39-3	0.0422	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Boron, dissolved	7440-42-8	0.011	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Calcium, dissolved	7440-70-2	64.2	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Chromium, dissolved	7440-47-3	0.00211	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Copper, dissolved	7440-50-8	0.00068	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lithium, dissolved	7439-93-2	0.0010	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Magnesium, dissolved	7439-95-4	21.0	0.0050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892

Analytical Results

WT2411821-005

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 10-May-2024 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Manganese, dissolved	7439-96-5	0.00497	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	13-May-2024	15-May-2024	1439609
Molybdenum, dissolved	7439-98-7	0.00126	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Potassium, dissolved	7440-09-7	1.83	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Rubidium, dissolved	7440-17-7	0.00091	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Selenium, dissolved	7782-49-2	0.000302	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silicon, dissolved	7440-21-3	5.75	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sodium, dissolved	7440-23-5	6.02	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Strontium, dissolved	7440-24-6	0.110	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sulfur, dissolved	7704-34-9	1.70	0.50	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Uranium, dissolved	7440-61-1	0.000287	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zinc, dissolved	7440-66-6	0.0011	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-May-2024	1439609
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	13-May-2024	1439892
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00239	0.00050	mg/L	E532A/WT	-	13-May-2024	1439726
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-May-2024	13-May-2024	1439401
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881

Analytical Results

WT2411821-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 10-May-2024 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	15-May-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	15-May-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	14-May-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	14-May-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	14-May-2024	15-May-2024	1440966
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.7	1.0	%	E601.SG/WT	14-May-2024	15-May-2024	1440966
Dichlorotoluene, 3,4-	95-75-0	73.9	1.0	%	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	107	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Difluorobenzene, 1,4-	540-36-3	104	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2411821-005

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 10-May-2024 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1-	90-12-0	0.031	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1+2-	----	0.068	0.015	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 2-	91-57-6	0.037	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	97.2	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene-d8	1146-65-2	102	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<1.20 RRR,	1.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	88.8	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Nitrobenzene-d5	4165-60-0	96.8	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Terphenyl-d14, p-	1718-51-0	95.0	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458

Analytical Results

WT2411821-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 10-May-2024 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	78.0	0.50	%	E625A/WT	13-May-2024	15-May-2024	1439458

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2411821-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: 4-23

Client sampling date / time: 10-May-2024 11:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	10.7	0.50	mg/L	E235.Cl/WT	13-May-2024	14-May-2024	1440468
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	13-May-2024	13-May-2024	1439596
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0124	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Arsenic, dissolved	7440-38-2	0.00123	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Barium, dissolved	7440-39-3	0.0752	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Calcium, dissolved	7440-70-2	76.6	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cobalt, dissolved	7440-48-4	0.00026	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Copper, dissolved	7440-50-8	0.00042	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Iron, dissolved	7439-89-6	0.016	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lead, dissolved	7439-92-1	0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Magnesium, dissolved	7439-95-4	33.3	0.0050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Manganese, dissolved	7439-96-5	0.0816	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	13-May-2024	15-May-2024	1439609
Molybdenum, dissolved	7439-98-7	0.00113	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892

Analytical Results

WT2411821-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: 4-23
Client sampling date / time: 10-May-2024 11:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Potassium, dissolved	7440-09-7	2.45	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Rubidium, dissolved	7440-17-7	0.00119	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Selenium, dissolved	7782-49-2	0.000299	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silicon, dissolved	7440-21-3	7.26	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sodium, dissolved	7440-23-5	3.64	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Strontium, dissolved	7440-24-6	0.118	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sulfur, dissolved	7704-34-9	4.83	0.50	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Titanium, dissolved	7440-32-6	<0.00080 DLUI,	0.00080	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Uranium, dissolved	7440-61-1	0.000798	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Vanadium, dissolved	7440-62-2	0.00078	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-May-2024	1439609
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	13-May-2024	1439892
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	13-May-2024	1439726
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-May-2024	13-May-2024	1439401
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881

Analytical Results

WT2411821-006

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: 4-23

Client sampling date / time: 10-May-2024 11:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	15-May-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	15-May-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	14-May-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	14-May-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	14-May-2024	15-May-2024	1440966
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.1	1.0	%	E601.SG/WT	14-May-2024	15-May-2024	1440966
Dichlorotoluene, 3,4-	95-75-0	58.6 SUR-ND.	1.0	%	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	108	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Difluorobenzene, 1,4-	540-36-3	103	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967

Analytical Results

WT2411821-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: 4-23
Client sampling date / time: 10-May-2024 11:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1-	90-12-0	0.034	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1+2-	----	0.070	0.015	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 2-	91-57-6	0.036	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Pyrene	129-00-0	0.014	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	99.5	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene-d8	1146-65-2	104	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene-d10	1517-22-2	114	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	87.1	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Nitrobenzene-d5	4165-60-0	88.1	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Terphenyl-d14, p-	1718-51-0	95.1	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458

Analytical Results

WT2411821-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: 4-23

Client sampling date / time: 10-May-2024 11:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Phenol	108-95-2	2.60	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	78.6	0.50	%	E625A/WT	13-May-2024	15-May-2024	1439458

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2411821-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 10-May-2024 12:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.12	0.50	mg/L	E235.Cl/WT	13-May-2024	14-May-2024	1440468
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	13-May-2024	13-May-2024	1439596
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Arsenic, dissolved	7440-38-2	0.00020	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Barium, dissolved	7440-39-3	0.168	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Boron, dissolved	7440-42-8	0.017	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cadmium, dissolved	7440-43-9	0.0000142	0.0000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Calcium, dissolved	7440-70-2	114	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Copper, dissolved	7440-50-8	0.00050	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lithium, dissolved	7439-93-2	0.0025	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Magnesium, dissolved	7439-95-4	50.8	0.0050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Manganese, dissolved	7439-96-5	0.00018	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	13-May-2024	15-May-2024	1439609
Molybdenum, dissolved	7439-98-7	0.000293	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Potassium, dissolved	7440-09-7	1.58	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Rubidium, dissolved	7440-17-7	0.00074	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Selenium, dissolved	7782-49-2	0.000431	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silicon, dissolved	7440-21-3	7.71	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892

Analytical Results

WT2411821-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 10-May-2024 12:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sodium, dissolved	7440-23-5	4.14	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Strontium, dissolved	7440-24-6	0.160	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sulfur, dissolved	7704-34-9	13.7	0.50	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Uranium, dissolved	7440-61-1	0.000888	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zinc, dissolved	7440-66-6	0.0081	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-May-2024	1439609
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	13-May-2024	1439892
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	13-May-2024	1439726
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-May-2024	13-May-2024	1439401
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881

Analytical Results

WT2411821-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 10-May-2024 12:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	15-May-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	15-May-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	14-May-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	14-May-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	14-May-2024	15-May-2024	1440966
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.4	1.0	%	E601.SG/WT	14-May-2024	15-May-2024	1440966
Dichlorotoluene, 3,4-	95-75-0	70.9	1.0	%	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	106	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Difluorobenzene, 1,4-	540-36-3	104	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967

Analytical Results

WT2411821-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 10-May-2024 12:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1-	90-12-0	0.019	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1+2-	----	0.043	0.015	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 2-	91-57-6	0.024	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Pyrene	129-00-0	0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene-d8	1146-65-2	104	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene-d10	1517-22-2	112	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	83.0	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Nitrobenzene-d5	4165-60-0	92.6	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Terphenyl-d14, p-	1718-51-0	94.1	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	72.4	0.50	%	E625A/WT	13-May-2024	15-May-2024	1439458

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2411821-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-03
Client sampling date / time: 10-May-2024 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	7.23	0.50	mg/L	E235.Cl/WT	13-May-2024	14-May-2024	1440468
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	13-May-2024	13-May-2024	1439596
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0020	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Arsenic, dissolved	7440-38-2	0.00024	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Barium, dissolved	7440-39-3	0.0594	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Boron, dissolved	7440-42-8	0.010	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Calcium, dissolved	7440-70-2	110	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Copper, dissolved	7440-50-8	0.00069	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lithium, dissolved	7439-93-2	0.0031	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Magnesium, dissolved	7439-95-4	45.8	0.0050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Manganese, dissolved	7439-96-5	0.00380	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	13-May-2024	15-May-2024	1439609
Molybdenum, dissolved	7439-98-7	0.000321	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Potassium, dissolved	7440-09-7	1.15	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Rubidium, dissolved	7440-17-7	0.00055	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Selenium, dissolved	7782-49-2	0.000098	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silicon, dissolved	7440-21-3	7.54	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sodium, dissolved	7440-23-5	4.93	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Strontium, dissolved	7440-24-6	0.153	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sulfur, dissolved	7704-34-9	6.78	0.50	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Uranium, dissolved	7440-61-1	0.000922	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Vanadium, dissolved	7440-62-2	0.00067	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-May-2024	1439609

Analytical Results

WT2411821-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-03
Client sampling date / time: 10-May-2024 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	13-May-2024	1439892
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	13-May-2024	1439726
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-May-2024	13-May-2024	1439401
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881

Analytical Results

WT2411821-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW-03
Client sampling date / time: 10-May-2024 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	15-May-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	15-May-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	14-May-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	14-May-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	14-May-2024	15-May-2024	1440966
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.5	1.0	%	E601.SG/WT	14-May-2024	15-May-2024	1440966
Dichlorotoluene, 3,4-	95-75-0	69.0	1.0	%	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	106	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Difluorobenzene, 1,4-	540-36-3	104	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(b+j)fluoranthene	n/a	0.016	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1-	90-12-0	0.020	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1+2-	----	0.043	0.015	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 2-	91-57-6	0.023	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Pyrene	129-00-0	0.019	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	101	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene-d8	1146-65-2	104	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene-d10	1517-22-2	110	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phthalate Esters								

Analytical Results

WT2411821-008

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW-03

Client sampling date / time: 10-May-2024 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	89.9	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Nitrobenzene-d5	4165-60-0	98.6	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Terphenyl-d14, p-	1718-51-0	99.2	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	77.7	0.50	%	E625A/WT	13-May-2024	15-May-2024	1439458

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2411821-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: DUP

Client sampling date / time: 10-May-2024 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	7.24	0.50	mg/L	E235.Cl/WT	13-May-2024	14-May-2024	1440468
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	13-May-2024	13-May-2024	1439596
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0056	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892

Analytical Results

WT2411821-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 10-May-2024 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Arsenic, dissolved	7440-38-2	0.00031	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Barium, dissolved	7440-39-3	0.0545	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Boron, dissolved	7440-42-8	0.011	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Calcium, dissolved	7440-70-2	94.3	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Chromium, dissolved	7440-47-3	0.00058	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Copper, dissolved	7440-50-8	0.00088	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lithium, dissolved	7439-93-2	0.0033	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Magnesium, dissolved	7439-95-4	42.8	0.0050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Manganese, dissolved	7439-96-5	0.00368	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	13-May-2024	15-May-2024	1439609
Molybdenum, dissolved	7439-98-7	0.00213	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Potassium, dissolved	7440-09-7	1.32	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Rubidium, dissolved	7440-17-7	0.00068	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Selenium, dissolved	7782-49-2	0.000230	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silicon, dissolved	7440-21-3	7.04	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sodium, dissolved	7440-23-5	4.96	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Strontium, dissolved	7440-24-6	0.148	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sulfur, dissolved	7704-34-9	7.67	0.50	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Uranium, dissolved	7440-61-1	0.00114	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Vanadium, dissolved	7440-62-2	0.00084	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-May-2024	1439609
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	13-May-2024	1439892
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	13-May-2024	1439726
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-May-2024	13-May-2024	1439401

Analytical Results

WT2411821-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 10-May-2024 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	13-May-2024	13-May-2024	1439882

Analytical Results

WT2411821-009

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: DUP

Client sampling date / time: 10-May-2024 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	15-May-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	15-May-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	14-May-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	14-May-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	14-May-2024	15-May-2024	1440966
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	93.2	1.0	%	E601.SG/WT	14-May-2024	15-May-2024	1440966
Dichlorotoluene, 3,4-	95-75-0	68.0	1.0	%	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	106	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Difluorobenzene, 1,4-	540-36-3	105	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(b+j)fluoranthene	n/a	0.014	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1-	90-12-0	0.015	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1+2-	----	0.032	0.015	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 2-	91-57-6	0.017	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Pyrene	129-00-0	0.016	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	104	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene-d8	1146-65-2	107	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene-d10	1517-22-2	114	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458

Analytical Results

WT2411821-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: DUP

Client sampling date / time: 10-May-2024 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	87.4	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Nitrobenzene-d5	4165-60-0	95.1	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Terphenyl-d14, p-	1718-51-0	102	1.0	%	E625A/WT	13-May-2024	15-May-2024	1439458
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	13-May-2024	15-May-2024	1439458
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	77.7	0.50	%	E625A/WT	13-May-2024	15-May-2024	1439458

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2411821-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 10-May-2024 13:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/WT	13-May-2024	14-May-2024	1440468
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	13-May-2024	13-May-2024	1439596
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Barium, dissolved	7440-39-3	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892

Analytical Results

WT2411821-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 10-May-2024 13:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Calcium, dissolved	7440-70-2	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Magnesium, dissolved	7439-95-4	<0.0050	0.0050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Manganese, dissolved	7439-96-5	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	13-May-2024	15-May-2024	1439609
Molybdenum, dissolved	7439-98-7	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Potassium, dissolved	7440-09-7	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Rubidium, dissolved	7440-17-7	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silicon, dissolved	7440-21-3	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sodium, dissolved	7440-23-5	<0.050	0.050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Strontium, dissolved	7440-24-6	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	13-May-2024	13-May-2024	1439892
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-May-2024	1439609
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	13-May-2024	1439892
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	13-May-2024	1439726
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	13-May-2024	13-May-2024	1439401
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881

Analytical Results

WT2411821-010

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 10-May-2024 13:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloromethane	75-09-2	<4.7 SFPR,	4.7	µg/L	E611D/WT	13-May-2024	14-May-2024	1439881
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	13-May-2024	13-May-2024	1439881
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	15-May-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	15-May-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	14-May-2024	15-May-2024	1440966

Analytical Results

WT2411821-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 10-May-2024 13:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	15-May-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	14-May-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	14-May-2024	15-May-2024	1440966
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.9	1.0	%	E601.SG/WT	14-May-2024	15-May-2024	1440966
Dichlorotoluene, 3,4-	95-75-0	93.2	1.0	%	E581.F1-L/WT	13-May-2024	13-May-2024	1439882
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	109	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Difluorobenzene, 1,4-	540-36-3	104	1.0	%	E611D/WT	13-May-2024	13-May-2024	1439881
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	14-May-2024	15-May-2024	1440967
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	97.4	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Naphthalene-d8	1146-65-2	100	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A/WT	14-May-2024	15-May-2024	1440967
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Dichlorobenzidine, 3,3'-	91-94-1	<0.40 RRR	0.40	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987

Analytical Results

WT2411821-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 10-May-2024 13:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	94.9	1.0	%	E625A/WT	14-May-2024	15-May-2024	1440987
Nitrobenzene-d5	4165-60-0	86.3	1.0	%	E625A/WT	14-May-2024	15-May-2024	1440987
Terphenyl-d14, p-	1718-51-0	96.0	1.0	%	E625A/WT	14-May-2024	15-May-2024	1440987
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	14-May-2024	15-May-2024	1440987
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	68.9	0.50	%	E625A/WT	14-May-2024	15-May-2024	1440987

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

ALS Canada Ltd.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2411821**	Page	: 1 of 24
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 10-May-2024 14:30
PO	: 735-0099459	Issue Date	: 22-May-2024 15:20
C-O-C number	: ----		
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- Matrix Spike outliers occur - please see following pages for full details.
- Test sample Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Volatile Organic Compounds	QC-1439881-002	----	Hexane, n-	110-54-3	E611D	67.0 % MES	70.0-130%	Recovery less than lower control limit
Semi-Volatile Organics	QC-1451452-002	----	Dichlorobenzidine, 3,3'-	91-94-1	E625A	12.9 % RRQC	50.0-140%	Recovery less than lower control limit
Semi-Volatile Organics	QC-MRG2-1439457 002	----	Dichlorobenzidine, 3,3'-	91-94-1	E625A	43.3 % LCS-ND	50.0-140%	Recovery less than lower control limit
Semi-Volatile Organics	QC-MRG2-1440987 002	----	Dichlorobenzidine, 3,3'-	91-94-1	E625A	32.3 % RRQC	50.0-140%	Recovery less than lower control limit

Result Qualifiers

Qualifier	*Description*
LCS-ND	*Lab Control Sample recovery was slightly outside ALS DQO. Reported non-detect results for associated samples were unaffected.*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*
RRQC	*Refer to report comments for information regarding this QC result.*

Matrix Spike (MS) Recoveries								
Dissolved Metals	Anonymous	Anonymous	Silver, dissolved	7440-22-4	E421	65.6 % MES	70.0-130%	Recovery less than lower data quality objective

Result Qualifiers

Qualifier	*Description*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Regular Sample Surrogates

Sub-Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Result	Limits	Comment
Samples Submitted							
Hydrocarbons Surrogates	WT2411821-006	4-23	Dichlorotoluene, 3,4-	95-75-0	58.6 %	60.0-140 %	Recovery less than lower data quality objective

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) 4-23	E567	10-May-2024	13-May-2024	28 days	3 days	✓	13-May-2024	28 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AGW1	E567	10-May-2024	13-May-2024	28 days	3 days	✓	13-May-2024	28 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) APW1	E567	10-May-2024	13-May-2024	28 days	3 days	✓	13-May-2024	28 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH219	E567	10-May-2024	13-May-2024	28 days	3 days	✓	13-May-2024	28 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) DUP	E567	10-May-2024	13-May-2024	28 days	3 days	✓	13-May-2024	28 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) FB	E567	10-May-2024	13-May-2024	28 days	3 days	✓	13-May-2024	28 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW-01	E567	10-May-2024	13-May-2024	28 days	3 days	✓	13-May-2024	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW-02	E567	10-May-2024	13-May-2024	28 days	3 days	✓	13-May-2024	28 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW-03	E567	10-May-2024	13-May-2024	28 days	3 days	✓	13-May-2024	28 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW5-23	E567	10-May-2024	13-May-2024	28 days	3 days	✓	13-May-2024	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] 4-23	E235.Cl	10-May-2024	13-May-2024	28 days	3 days	✓	14-May-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] AGW1	E235.Cl	10-May-2024	13-May-2024	28 days	3 days	✓	14-May-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH219	E235.Cl	10-May-2024	13-May-2024	28 days	3 days	✓	14-May-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] DUP	E235.Cl	10-May-2024	13-May-2024	28 days	3 days	✓	14-May-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] FB	E235.Cl	10-May-2024	13-May-2024	28 days	3 days	✓	14-May-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW-01	E235.Cl	10-May-2024	13-May-2024	28 days	3 days	✓	14-May-2024	28 days	4 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW-02	E235.Cl	10-May-2024	13-May-2024	28 days	3 days	✓	14-May-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW-03	E235.Cl	10-May-2024	13-May-2024	28 days	3 days	✓	14-May-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW5-23	E235.Cl	10-May-2024	13-May-2024	28 days	3 days	✓	14-May-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] APW1	E235.Cl	10-May-2024	13-May-2024	28 days	4 days	✓	14-May-2024	28 days	4 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] 4-23	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] AGW1	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] APW1	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] BH219	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] DUP	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW-01	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW-02	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW-03	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
FB	E625A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
4-23	E333	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
AGW1	E333	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
APW1	E333	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
BH219	E333	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) DUP	E333	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) FB	E333	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW-01	E333	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW-02	E333	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW-03	E333	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW5-23	E333	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) 4-23	E509	10-May-2024	13-May-2024	28 days	3 days	✓	15-May-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) AGW1	E509	10-May-2024	13-May-2024	28 days	3 days	✓	15-May-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) APW1	E509	10-May-2024	13-May-2024	28 days	3 days	✓	15-May-2024	28 days	5 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH219	E509	10-May-2024	13-May-2024	28 days	3 days	✓	15-May-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) DUP	E509	10-May-2024	13-May-2024	28 days	3 days	✓	15-May-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) FB	E509	10-May-2024	13-May-2024	28 days	3 days	✓	15-May-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW-01	E509	10-May-2024	13-May-2024	28 days	3 days	✓	15-May-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW-02	E509	10-May-2024	13-May-2024	28 days	3 days	✓	15-May-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW-03	E509	10-May-2024	13-May-2024	28 days	3 days	✓	15-May-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW5-23	E509	10-May-2024	13-May-2024	28 days	3 days	✓	15-May-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) 4-23	E421	10-May-2024	13-May-2024	180 days	3 days	✓	13-May-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) AGW1	E421	10-May-2024	13-May-2024	180 days	3 days	✓	13-May-2024	180 days	3 days	✓

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) APW1	E421	10-May-2024	13-May-2024	180 days	3 days	✓	13-May-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH219	E421	10-May-2024	13-May-2024	180 days	3 days	✓	13-May-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) DUP	E421	10-May-2024	13-May-2024	180 days	3 days	✓	13-May-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) FB	E421	10-May-2024	13-May-2024	180 days	3 days	✓	13-May-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW-01	E421	10-May-2024	13-May-2024	180 days	3 days	✓	13-May-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW-02	E421	10-May-2024	13-May-2024	180 days	3 days	✓	13-May-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW-03	E421	10-May-2024	13-May-2024	180 days	3 days	✓	13-May-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW5-23	E421	10-May-2024	13-May-2024	180 days	3 days	✓	13-May-2024	180 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) 4-23	E581.F1-L	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) AGW1	E581.F1-L	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) APW1	E581.F1-L	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) BH219	E581.F1-L	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) DUP	E581.F1-L	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) FB	E581.F1-L	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW-01	E581.F1-L	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW-02	E581.F1-L	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW-03	E581.F1-L	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW5-23	E581.F1-L	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
4-23	E601.SG	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
AGW1	E601.SG	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
APW1	E601.SG	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH219	E601.SG	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
DUP	E601.SG	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
FB	E601.SG	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW-01	E601.SG	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW-02	E601.SG	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW-03	E601.SG	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓

Matrix: **Water**

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW5-23	E601.SG	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] 4-23	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] AGW1	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] APW1	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] BH219	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] DUP	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW-01	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW-02	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW-03	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓

Matrix: **Water**

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
FB	E625A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
4-23	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
AGW1	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
APW1	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
BH219	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
DUP	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW-01	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW-02	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW-03	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
FB	E625A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
4-23	E641A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
AGW1	E641A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
APW1	E641A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH219	E641A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
DUP	E641A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
FB	E641A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW-01	E641A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW-02	E641A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW-03	E641A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW5-23	E641A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] 4-23	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] AGW1	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] APW1	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] BH219	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] DUP	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW-01	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW-02	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW-03	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	10-May-2024	13-May-2024	14 days	3 days	✓	15-May-2024	40 days	2 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
FB	E625A	10-May-2024	14-May-2024	14 days	4 days	✓	15-May-2024	40 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
4-23	E532A	10-May-2024	----	----	----		13-May-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AGW1	E532A	10-May-2024	----	----	----		13-May-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
APW1	E532A	10-May-2024	----	----	----		13-May-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH219	E532A	10-May-2024	----	----	----		13-May-2024	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
DUP	E532A	10-May-2024	----	----	----		13-May-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
FB	E532A	10-May-2024	----	----	----		13-May-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW-01	E532A	10-May-2024	----	----	----		13-May-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW-02	E532A	10-May-2024	----	----	----		13-May-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW-03	E532A	10-May-2024	----	----	----		13-May-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW5-23	E532A	10-May-2024	----	----	----		13-May-2024	28 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
4-23	E611D	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
AGW1	E611D	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
APW1	E611D	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) BH219	E611D	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) DUP	E611D	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) FB	E611D	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW-01	E611D	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW-02	E611D	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW-03	E611D	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW5-23	E611D	10-May-2024	13-May-2024	14 days	3 days	✓	13-May-2024	14 days	3 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1439882	1	14	7.1	5.0	✓
Chloride in Water by IC	E235.Cl	1440468	1	16	6.2	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1439726	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1439609	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1439892	1	20	5.0	5.0	✓
Total Cyanide	E333	1439596	1	14	7.1	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1439881	2	32	6.2	5.0	✓
Laboratory Control Samples (LCS)							
BNA (Routine List) by GC-MS/MS	E625A	1439458	4	21	19.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1439882	1	14	7.1	5.0	✓
Chloride in Water by IC	E235.Cl	1440468	1	16	6.2	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1439726	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1439609	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1439892	1	20	5.0	5.0	✓
Oil & Grease by Gravimetry	E567	1438464	2	29	6.9	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1440967	1	15	6.6	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1440966	1	18	5.5	5.0	✓
Total Cyanide	E333	1439596	1	14	7.1	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1439881	2	32	6.2	5.0	✓
Method Blanks (MB)							
BNA (Routine List) by GC-MS/MS	E625A	1439458	4	21	19.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1439882	1	14	7.1	5.0	✓
Chloride in Water by IC	E235.Cl	1440468	1	16	6.2	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1439726	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1439609	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1439892	1	20	5.0	5.0	✓
Oil & Grease by Gravimetry	E567	1438464	2	29	6.9	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1440967	1	15	6.6	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1440966	1	18	5.5	5.0	✓
Total Cyanide	E333	1439596	1	14	7.1	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1439881	2	32	6.2	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1439882	1	14	7.1	5.0	✓
Chloride in Water by IC	E235.Cl	1440468	1	16	6.2	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1439726	1	20	5.0	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Mercury in Water by CVAAS	E509	1439609	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1439892	1	20	5.0	5.0	✓
Total Cyanide	E333	1439596	1	14	7.1	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1439881	2	32	6.2	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Total Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A ALS Environmental - Waterloo	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
Oil & Grease by Gravimetry	E567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
BNA (Routine List) by GC-MS/MS	E625A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS/MS.
PAHs in Water by Hexane LVI GC-MS	E641A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
F1-BTEX	EC580 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
BNA Extraction	EP625 ALS Environmental - Waterloo	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.

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QUALITY CONTROL REPORT

Work Order	: **WT2411821**	Page	: 1 of 26
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 10-May-2024 14:30
PO	: 735-0099459	Date Analysis Commenced	: 13-May-2024
C-O-C number	: ----	Issue Date	: 22-May-2024 15:20
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 10		
No. of samples analysed	: 10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Andrea Armstrong	Department Manager - Air Quality and Volatiles	Waterloo VOC, Waterloo, Ontario
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Rachel Cameron	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 1440468)											
WT2411713-001	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	1.63	1.56	0.07	Diff <2x LOR	----
Cyanides (QC Lot: 1439596)											
TY2404481-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.0020	mg/L	<0.0020	<0.0020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1439609)											
WT2411714-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1439892)											
HA2400987-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0121	0.0124	2.24%	20%	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	0.00019	0.00018	0.000006	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00061	0.00059	0.00002	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.137	0.135	1.66%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	0.017	0.017	0.00002	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	0.0000154	0.0000128	0.0000026	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	27.0	26.8	0.840%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	0.000015	0.000014	0.0000003	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	0.00026	0.00025	0.00001	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00125	0.00125	0.000004	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0114	0.0113	0.763%	20%	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	5.16	4.99	3.31%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.133	0.131	1.37%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.00238	0.00232	2.35%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.00068	0.00072	0.00004	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	4.73	4.69	0.854%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00161	0.00161	0.000005	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000173	0.000188	0.000015	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1439892) - continued											
HA2400987-002	Anonymous	Silicon, dissolved	7440-21-3	E421	0.050	mg/L	4.30	4.24	1.36%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	0.000011	<0.000010	0.000001	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	11.0	11.1	1.20%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.146	0.145	0.413%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	4.35	4.23	0.12	Diff <2x LOR	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	0.000013	0.000014	0.0000007	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	0.00470	0.00487	3.44%	20%	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	0.00020	0.00020	0.000006	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000515	0.000512	0.701%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	0.0033	0.0033	0.000008	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1439726)											
WT2411724-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1439881)											
WT2411821-001	APW1	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1439881) - continued											
WT2411821-001	APW1	Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1441727)											
WT2411475-041	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	0.53	0.51	0.02	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	3.60	3.44	4.54%	30%	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1441727) - continued											
WT2411475-041	Anonymous	Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	0.92	0.88	0.04	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	0.45	0.43	0.02	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1439882)											
WT2411821-001	APW1	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients (QCLot: 1440468)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 1439596)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 1439609)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1439892)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1439892) - continued						
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Speciated Metals (QCLot: 1439726)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1438464)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 1439401)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Volatile Organic Compounds (QCLot: 1439881)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1439881) - continued						
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Volatile Organic Compounds (QCLot: 1441727)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1441727) - continued						
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1439882)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 1440966)						

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Hydrocarbons (QCLot: 1440966) - continued						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1440967)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Phthalate Esters (QCLot: 1439458)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	<0.60	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	<0.20	----
Phthalate Esters (QCLot: 1440987)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	<0.60	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	<0.20	----
Phthalate Esters (QCLot: 1447322)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	<0.60	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	<0.20	----
Phthalate Esters (QCLot: 1451452)						

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Phthalate Esters (QCLot: 1451452) - continued						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	<0.60	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	<0.20	----
Semi-Volatile Organics (QCLot: 1439458)						
Biphenyl	92-52-4	E625A	0.2	µg/L	<0.20	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1440987)						
Biphenyl	92-52-4	E625A	0.2	µg/L	<0.20	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1447322)						
Biphenyl	92-52-4	E625A	0.2	µg/L	<0.20	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1451452)						
Biphenyl	92-52-4	E625A	0.2	µg/L	<0.20	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	<0.40	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Semi-Volatile Organics (QCLot: 1451452) - continued						
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 1439458)						
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	<0.20	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	<0.20	----
Chlorinated Phenolics (QCLot: 1440987)						
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	<0.20	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	<0.20	----
Chlorinated Phenolics (QCLot: 1447322)						
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	<0.20	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	<0.20	----
Chlorinated Phenolics (QCLot: 1451452)						
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	<0.20	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	<0.20	----
Non-Chlorinated Phenolics (QCLot: 1439458)						
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	<1.0	----
Phenol	108-95-2	E625A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1440987)						
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	<1.0	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Non-Chlorinated Phenolics (QCLot: 1440987) - continued						
Phenol	108-95-2	E625A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1447322)						
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	<1.0	----
Phenol	108-95-2	E625A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1451452)						
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	<1.0	----
Phenol	108-95-2	E625A	0.5	µg/L	<0.50	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1440468)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	99.7	90.0	110	----
Cyanides (QCLot: 1439596)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	87.4	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	92.2	80.0	120	----
Dissolved Metals (QCLot: 1439892)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	96.6	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	97.7	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	102	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.012 mg/L	101	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	93.8	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	98.0	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	89.4	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	97.7	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	98.3	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.002 mg/L	101	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.012 mg/L	97.0	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.012 mg/L	94.3	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.012 mg/L	94.4	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	93.3	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	97.1	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.012 mg/L	87.4	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	101	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.012 mg/L	99.3	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.012 mg/L	98.8	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	94.2	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	103	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	93.3	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	102	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	97.0	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	96.5	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	91.8	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Dissolved Metals (QCLot: 1439892) - continued									
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	97.8	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.012 mg/L	99.9	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	95.4	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	98.2	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	96.6	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	95.7	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	98.9	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.012 mg/L	92.5	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	94.7	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0 mg/L	102	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	97.6	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	95.0	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	93.1	80.0	120	----
Speciated Metals (QCLot: 1439726)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	103	80.0	120	----
Aggregate Organics (QCLot: 1438464)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	90.7	70.0	130	----
Aggregate Organics (QCLot: 1439401)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	93.2	70.0	130	----
Volatile Organic Compounds (QCLot: 1439881)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	123	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	91.2	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	97.3	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	74.0	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	95.1	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	104	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	98.8	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	84.8	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	94.8	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	97.0	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	98.0	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	96.7	70.0	130	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1439881) - continued									
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	73.2	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	77.2	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	99.5	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	98.7	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	102	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	94.4	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	89.7	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	84.6	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	89.4	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	# 67.0	70.0	130	MES
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	118	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	92.5	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	86.0	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	93.8	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	88.1	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	97.6	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	88.1	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	98.1	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	103	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	84.0	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	91.6	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	90.5	70.0	130	----
Volatile Organic Compounds (QCLot: 1441727)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	123	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	98.6	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	99.5	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	98.6	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	97.4	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	94.8	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	99.2	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Volatile Organic Compounds (QCLot: 1441727) - continued									
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	97.9	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	97.9	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	96.1	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	94.8	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	94.4	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	88.7	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	96.1	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	104	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	93.6	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	94.0	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	95.8	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	104	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	105	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	98.2	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	94.9	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	94.9	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	112	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	95.1	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	98.2	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	95.7	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	92.8	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	97.8	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	105	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	95.9	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	96.3	70.0	130	----
Hydrocarbons (QCLot: 1439882)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	83.8	80.0	120	----
Hydrocarbons (QCLot: 1440966)									

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Hydrocarbons (QCLot: 1440966) - continued									
F2 (C10-C16)	----	E601.SG	100	µg/L	4010 µg/L	104	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	8300 µg/L	108	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4360 µg/L	115	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1440967)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.526 µg/L	91.9	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.526 µg/L	88.6	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.526 µg/L	84.4	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.526 µg/L	89.4	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.526 µg/L	83.9	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.526 µg/L	78.1	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.526 µg/L	111	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.526 µg/L	95.0	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.526 µg/L	98.6	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.526 µg/L	103	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.526 µg/L	94.6	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.526 µg/L	92.4	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.526 µg/L	111	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.526 µg/L	85.3	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.526 µg/L	85.8	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.526 µg/L	85.3	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.526 µg/L	95.7	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.526 µg/L	95.0	50.0	140	----
Phthalate Esters (QCLot: 1439458)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	33.7 µg/L	79.9	50.0	140	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	33.7 µg/L	88.5	50.0	140	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	33.7 µg/L	91.3	50.0	140	----
Phthalate Esters (QCLot: 1440987)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	33.7 µg/L	68.1	50.0	140	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	33.7 µg/L	85.8	50.0	140	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	33.7 µg/L	88.9	50.0	140	----
Phthalate Esters (QCLot: 1447322)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	33.7 µg/L	90.5	50.0	140	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	33.7 µg/L	84.4	50.0	140	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	33.7 µg/L	84.7	50.0	140	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Phthalate Esters (QCLot: 1451452)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	33.7 µg/L	89.1	50.0	140	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	33.7 µg/L	89.8	50.0	140	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	33.7 µg/L	93.9	50.0	140	----
Semi-Volatile Organics (QCLot: 1439458)									
Biphenyl	92-52-4	E625A	0.2	µg/L	8.42 µg/L	81.5	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	8.42 µg/L	88.5	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	8.42 µg/L	73.3	50.0	140	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	8.42 µg/L	80.9	30.0	140	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	8.42 µg/L	# 43.3	50.0	140	LCS-ND
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	8.42 µg/L	84.5	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	8.42 µg/L	73.1	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	8.42 µg/L	77.0	50.0	130	----
Semi-Volatile Organics (QCLot: 1440987)									
Biphenyl	92-52-4	E625A	0.2	µg/L	8.42 µg/L	78.2	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	8.42 µg/L	84.0	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	8.42 µg/L	66.4	50.0	140	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	8.42 µg/L	76.0	30.0	140	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	8.42 µg/L	# 32.3	50.0	140	RRQC
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	8.42 µg/L	79.3	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	8.42 µg/L	72.6	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	8.42 µg/L	71.2	50.0	130	----
Semi-Volatile Organics (QCLot: 1447322)									
Biphenyl	92-52-4	E625A	0.2	µg/L	8.42 µg/L	74.9	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	8.42 µg/L	72.6	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	8.42 µg/L	86.0	50.0	140	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	8.42 µg/L	96.0	30.0	140	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	8.42 µg/L	58.8	50.0	140	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	8.42 µg/L	86.0	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	8.42 µg/L	76.0	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	8.42 µg/L	53.5	50.0	130	----
Semi-Volatile Organics (QCLot: 1451452)									
Biphenyl	92-52-4	E625A	0.2	µg/L	8.42 µg/L	80.2	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	8.42 µg/L	79.0	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	8.42 µg/L	90.4	50.0	140	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	8.42 µg/L	88.6	30.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Semi-Volatile Organics (QCLot: 1451452) - continued									
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	8.42 µg/L	# 12.9	50.0	140	RRQC
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	8.42 µg/L	95.7	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	8.42 µg/L	79.0	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	8.42 µg/L	65.0	50.0	130	----
Chlorinated Phenolics (QCLot: 1439458)									
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	25.3 µg/L	69.8	65.0	130	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	25.3 µg/L	89.4	65.0	130	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	25.3 µg/L	89.8	65.0	130	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	25.3 µg/L	92.5	65.0	130	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	25.3 µg/L	88.3	65.0	130	----
Chlorinated Phenolics (QCLot: 1440987)									
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	25.3 µg/L	67.2	65.0	130	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	25.3 µg/L	84.9	65.0	130	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	25.3 µg/L	69.2	65.0	130	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	25.3 µg/L	82.1	65.0	130	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	25.3 µg/L	80.1	65.0	130	----
Chlorinated Phenolics (QCLot: 1447322)									
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	25.3 µg/L	70.3	65.0	130	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	25.3 µg/L	74.0	65.0	130	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	25.3 µg/L	66.5	65.0	130	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	25.3 µg/L	81.2	65.0	130	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	25.3 µg/L	82.8	65.0	130	----
Chlorinated Phenolics (QCLot: 1451452)									
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	25.3 µg/L	70.5	65.0	130	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	25.3 µg/L	80.2	65.0	130	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	25.3 µg/L	73.9	65.0	130	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	25.3 µg/L	86.2	65.0	130	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	25.3 µg/L	91.0	65.0	130	----
Non-Chlorinated Phenolics (QCLot: 1439458)									
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	25.3 µg/L	96.7	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	25.3 µg/L	86.5	40.0	140	----
Phenol	108-95-2	E625A	0.5	µg/L	25.3 µg/L	123	30.0	130	----
Non-Chlorinated Phenolics (QCLot: 1440987)									
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	25.3 µg/L	93.4	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	25.3 µg/L	90.3	40.0	140	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Non-Chlorinated Phenolics (QCLot: 1440987) - continued									
Phenol	108-95-2	E625A	0.5	µg/L	25.3 µg/L	119	30.0	130	----
Non-Chlorinated Phenolics (QCLot: 1447322)									
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	25.3 µg/L	104	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	25.3 µg/L	75.8	40.0	140	----
Phenol	108-95-2	E625A	0.5	µg/L	25.3 µg/L	96.9	30.0	130	----
Non-Chlorinated Phenolics (QCLot: 1451452)									
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	25.3 µg/L	129	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	25.3 µg/L	74.7	40.0	140	----
Phenol	108-95-2	E625A	0.5	µg/L	25.3 µg/L	99.2	30.0	130	----

Qualifiers

Qualifier	Description
LCS-ND	*Lab Control Sample recovery was slightly outside ALS DQO. Reported non-detect results for associated samples were unaffected.*
RRQC	*Refer to report comments for information regarding this QC result.*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1440468)										
WT2411713-001	Anonymous	Chloride	16887-00-6	E235.Cl	97.8 mg/L	100 mg/L	97.8	75.0	125	----
Cyanides (QCLot: 1439596)										
TY2404481-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.213 mg/L	0.25 mg/L	85.4	75.0	125	----
Dissolved Metals (QCLot: 1439609)										
WT2411717-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000902 mg/L	0 mg/L	90.2	70.0	130	----
Dissolved Metals (QCLot: 1439892)										
HA2400987-006	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0977 mg/L	0.1 mg/L	97.7	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0499 mg/L	0.05 mg/L	99.7	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0531 mg/L	0.05 mg/L	106	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.00491 mg/L	0.005 mg/L	98.2	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0461 mg/L	0.05 mg/L	92.3	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.042 mg/L	0.05 mg/L	84.2	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00497 mg/L	0.005 mg/L	99.5	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00261 mg/L	0.002 mg/L	104	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0123 mg/L	0.012 mg/L	98.7	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0117 mg/L	0.012 mg/L	93.6	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0119 mg/L	0.012 mg/L	94.9	70.0	130	----
		Iron, dissolved	7439-89-6	E421	0.046 mg/L	0.05 mg/L	93.2	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0248 mg/L	0.025 mg/L	99.3	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0109 mg/L	0.012 mg/L	87.5	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	ND mg/L	----	ND	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0126 mg/L	0.012 mg/L	100	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0233 mg/L	0.025 mg/L	93.3	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	0.513 mg/L	0.5 mg/L	103	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	ND mg/L	----	ND	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.00507 mg/L	0.005 mg/L	101	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0542 mg/L	0.05 mg/L	108	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	----	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00328 mg/L	0.005 mg/L	65.6	70.0	130	MES
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	2.20 mg/L	2.5 mg/L	88.0	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.00564 mg/L	0.005 mg/L	113	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0506 mg/L	0.05 mg/L	101	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.00468 mg/L	0.005 mg/L	93.7	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 1439892) - continued										
HA2400987-006	Anonymous	Tin, dissolved	7440-31-5	E421	0.0247 mg/L	0.025 mg/L	98.9	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0113 mg/L	0.012 mg/L	90.2	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.00483 mg/L	0.005 mg/L	96.7	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.000254 mg/L	0 mg/L	102	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0250 mg/L	0.025 mg/L	100	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.0244 mg/L	0.025 mg/L	97.4	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.00469 mg/L	0.005 mg/L	93.7	70.0	130	----
Speciated Metals (QCLot: 1439726)										
WT2411724-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0420 mg/L	0.04 mg/L	105	70.0	130	----
Volatile Organic Compounds (QCLot: 1439881)										
WT2411821-001	APW1	Acetone	67-64-1	E611D	119 µg/L	100 µg/L	119	60.0	140	----
		Benzene	71-43-2	E611D	91.7 µg/L	100 µg/L	91.7	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Bromoform	75-25-2	E611D	76.4 µg/L	100 µg/L	76.4	60.0	140	----
		Bromomethane	74-83-9	E611D	90.9 µg/L	100 µg/L	90.9	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Chlorobenzene	108-90-7	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		Chloroform	67-66-3	E611D	110 µg/L	100 µg/L	110	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	88.4 µg/L	100 µg/L	88.4	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	99.8 µg/L	100 µg/L	99.8	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	94.7 µg/L	100 µg/L	94.7	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	93.4 µg/L	100 µg/L	93.4	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	92.7 µg/L	100 µg/L	92.7	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	63.9 µg/L	100 µg/L	63.9	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	116 µg/L	100 µg/L	116	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	96.2 µg/L	100 µg/L	96.2	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	97.0 µg/L	100 µg/L	97.0	60.0	140	----
		Dichloromethane	75-09-2	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	98.7 µg/L	100 µg/L	98.7	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	91.0 µg/L	100 µg/L	91.0	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	83.0 µg/L	100 µg/L	83.0	60.0	140	----
		Ethylbenzene	100-41-4	E611D	84.6 µg/L	100 µg/L	84.6	60.0	140	----
		Hexane, n-	110-54-3	E611D	78.2 µg/L	100 µg/L	78.2	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	91 µg/L	100 µg/L	91.4	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Styrene	100-42-5	E611D	84.2 µg/L	100 µg/L	84.2	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	94.5 µg/L	100 µg/L	94.5	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	91.2 µg/L	100 µg/L	91.2	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	89.8 µg/L	100 µg/L	89.8	60.0	140	----
		Toluene	108-88-3	E611D	84.2 µg/L	100 µg/L	84.2	60.0	140	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1439881) - continued										
WT2411821-001	APW1	Trichloroethane, 1,1,1-	71-55-6	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Trichloroethylene	79-01-6	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Vinyl chloride	75-01-4	E611D	77.8 µg/L	100 µg/L	77.8	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	173 µg/L	200 µg/L	86.7	60.0	140	----
		Xylene, o-	95-47-6	E611D	87.4 µg/L	100 µg/L	87.4	60.0	140	----
Volatile Organic Compounds (QCLot: 1441727)										
WT2411475-041	Anonymous	Acetone	67-64-1	E611D	134 µg/L	100 µg/L	134	60.0	140	----
		Benzene	71-43-2	E611D	97.9 µg/L	100 µg/L	97.9	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Bromoform	75-25-2	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Bromomethane	74-83-9	E611D	92.6 µg/L	100 µg/L	92.6	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	90.2 µg/L	100 µg/L	90.2	60.0	140	----
		Chlorobenzene	108-90-7	E611D	93.5 µg/L	100 µg/L	93.5	60.0	140	----
		Chloroform	67-66-3	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	94.9 µg/L	100 µg/L	94.9	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	90.8 µg/L	100 µg/L	90.8	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	91.4 µg/L	100 µg/L	91.4	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	63.8 µg/L	100 µg/L	63.8	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	114 µg/L	100 µg/L	114	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	95.4 µg/L	100 µg/L	95.4	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	97.3 µg/L	100 µg/L	97.3	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	98.4 µg/L	100 µg/L	98.4	60.0	140	----
		Dichloromethane	75-09-2	E611D	108 µg/L	100 µg/L	108	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Ethylbenzene	100-41-4	E611D	90.7 µg/L	100 µg/L	90.7	60.0	140	----
		Hexane, n-	110-54-3	E611D	92.2 µg/L	100 µg/L	92.2	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	128 µg/L	100 µg/L	128	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	127 µg/L	100 µg/L	127	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	96.6 µg/L	100 µg/L	96.6	60.0	140	----
		Styrene	100-42-5	E611D	93.6 µg/L	100 µg/L	93.6	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	93.8 µg/L	100 µg/L	93.8	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	121 µg/L	100 µg/L	121	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	87.6 µg/L	100 µg/L	87.6	60.0	140	----
		Toluene	108-88-3	E611D	93.7 µg/L	100 µg/L	93.7	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	88.9 µg/L	100 µg/L	88.9	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	108 µg/L	100 µg/L	108	60.0	140	----
		Trichloroethylene	79-01-6	E611D	89.0 µg/L	100 µg/L	89.0	60.0	140	----

Sub-Matrix: **Water**

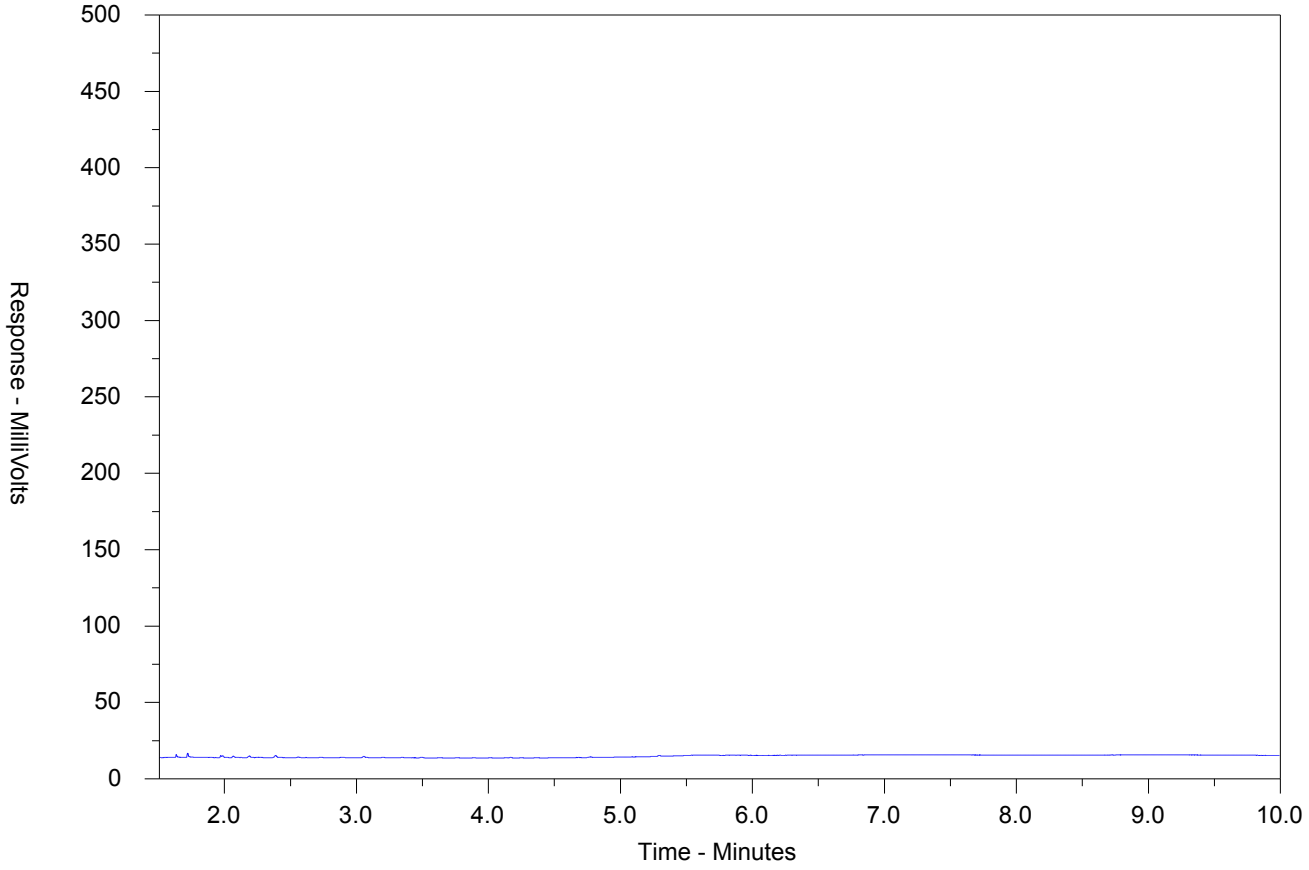
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1441727) - continued										
WT2411475-041	Anonymous	Trichlorofluoromethane	75-69-4	E611D	85.0 µg/L	100 µg/L	85.0	60.0	140	----
		Vinyl chloride	75-01-4	E611D	89.6 µg/L	100 µg/L	89.6	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	183 µg/L	200 µg/L	91.7	60.0	140	----
		Xylene, o-	95-47-6	E611D	92.8 µg/L	100 µg/L	92.8	60.0	140	----
Hydrocarbons (QCLot: 1439882)										
WT2411821-001	APW1	F1 (C6-C10)	----	E581.F1-L	1590 µg/L	2000 µg/L	79.7	60.0	140	----

Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2411821-001-E601.SG
Client Sample ID: APW1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

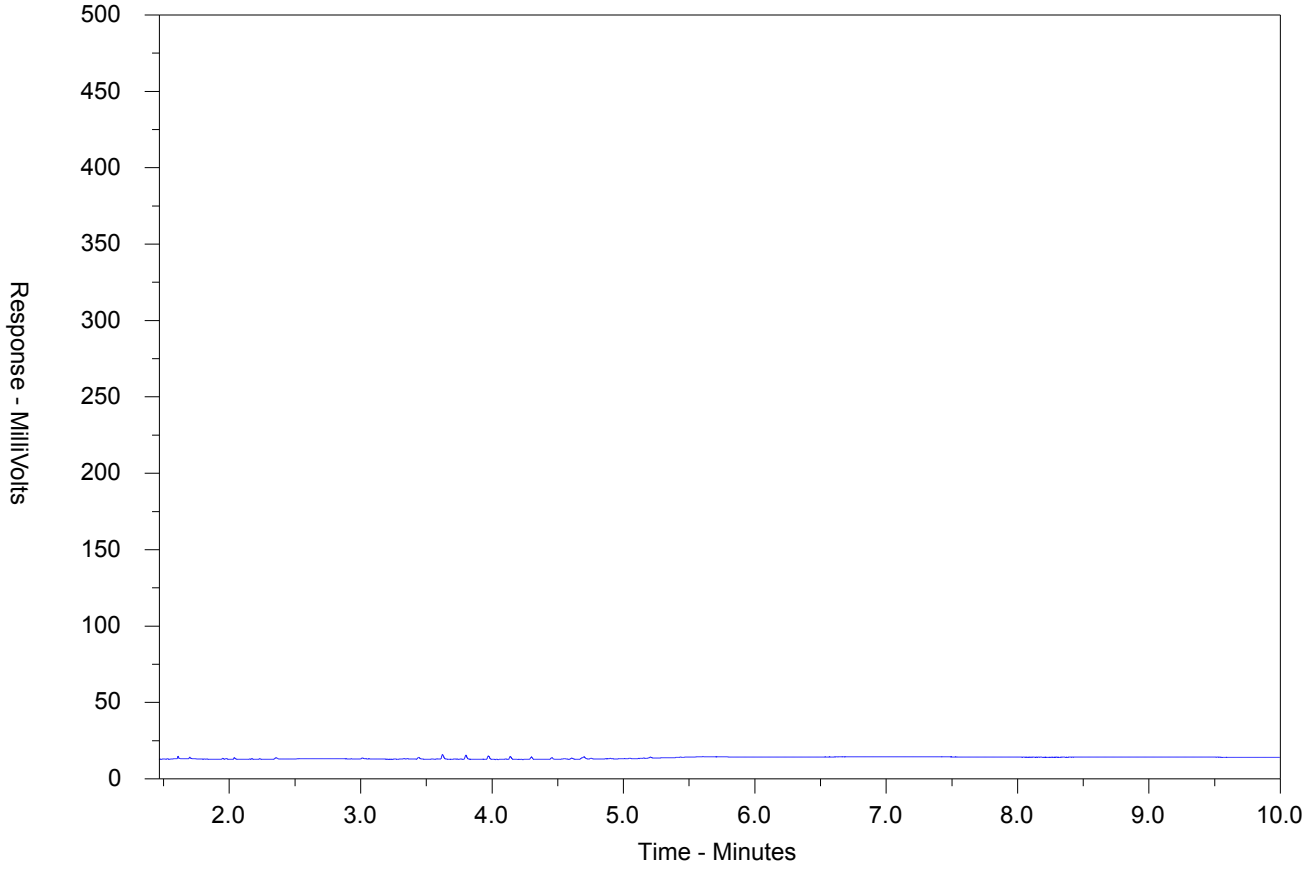
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2411821-002-E601.SG
Client Sample ID: MW-01



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

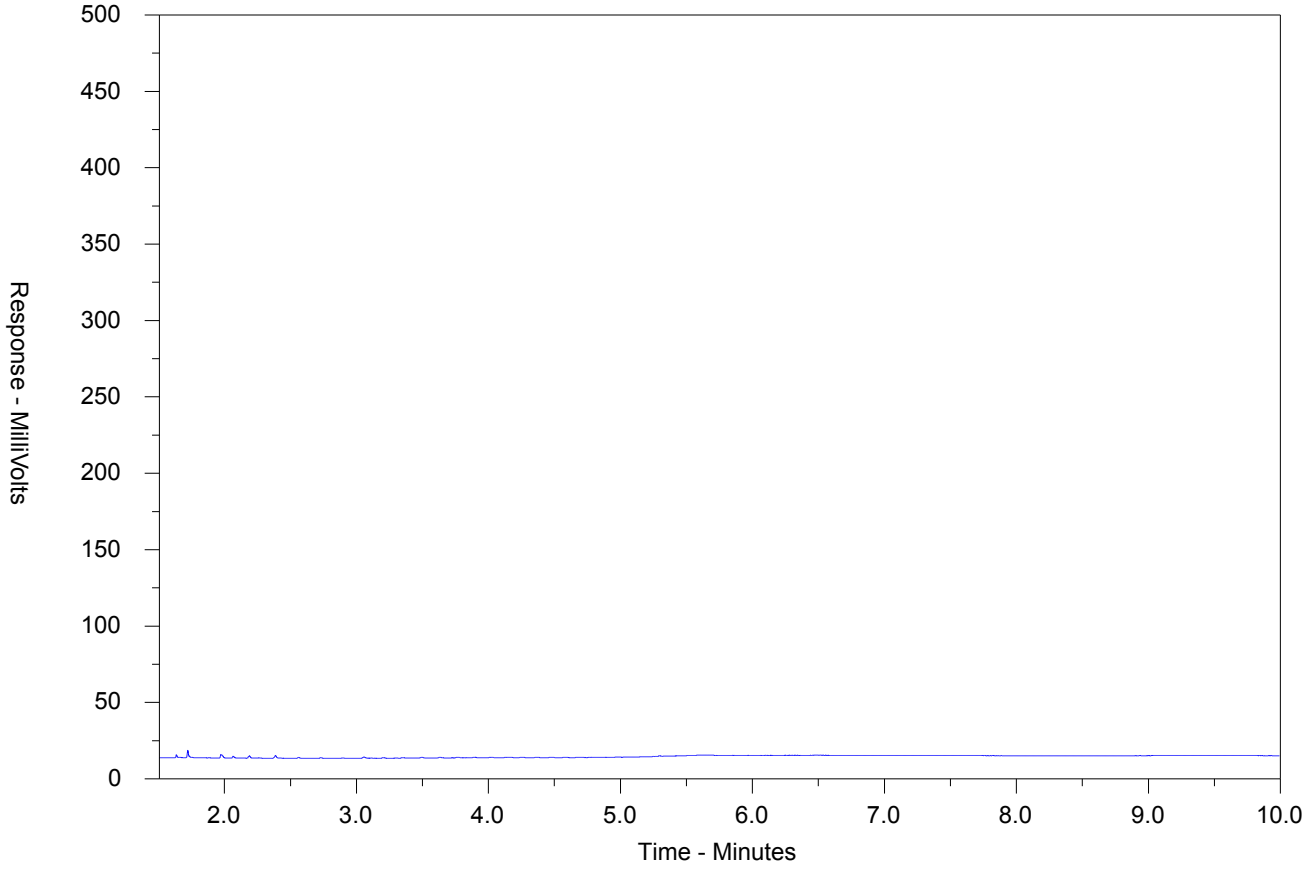
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2411821-003-E601.SG
Client Sample ID: AGW1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

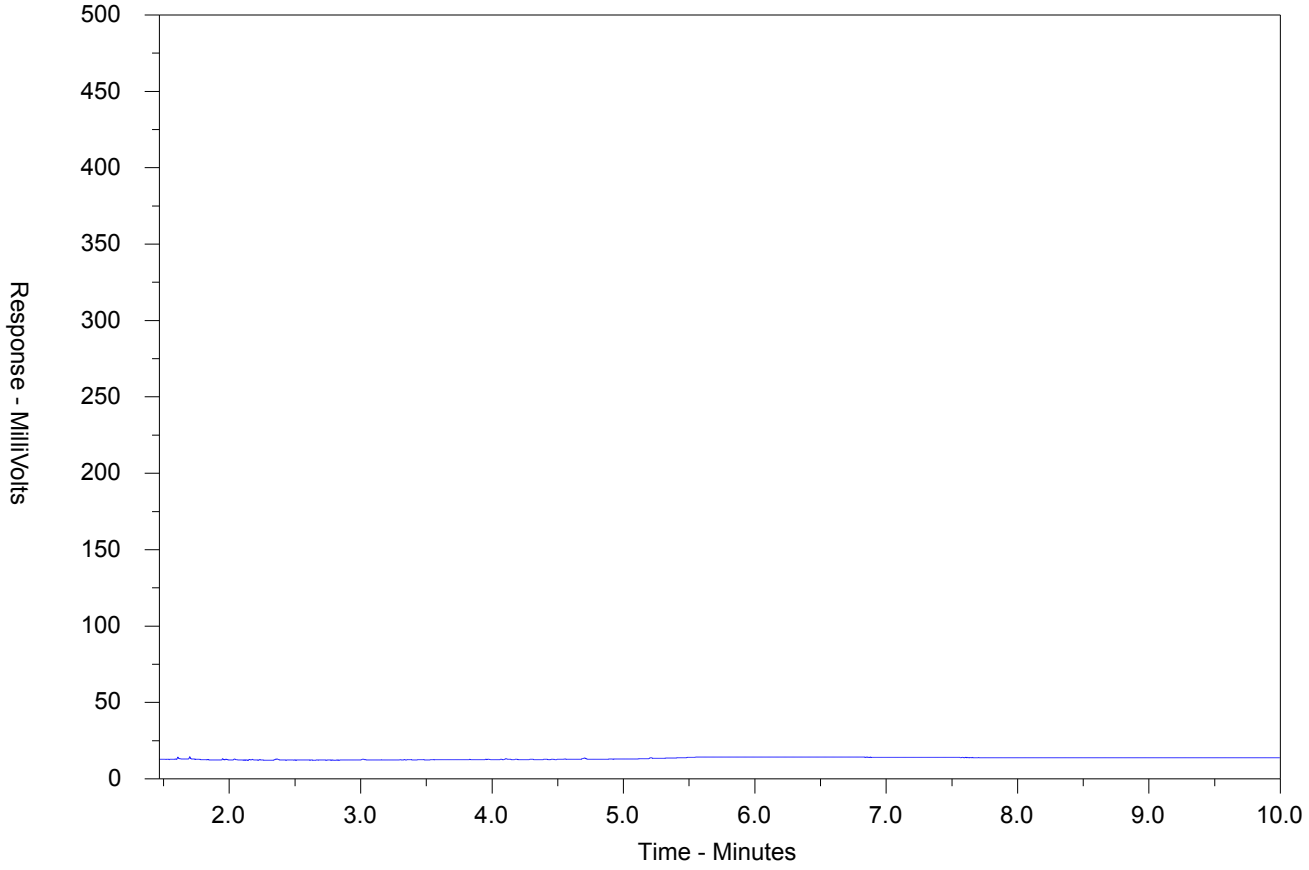
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2411821-004-E601.SG
Client Sample ID: MW-02



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

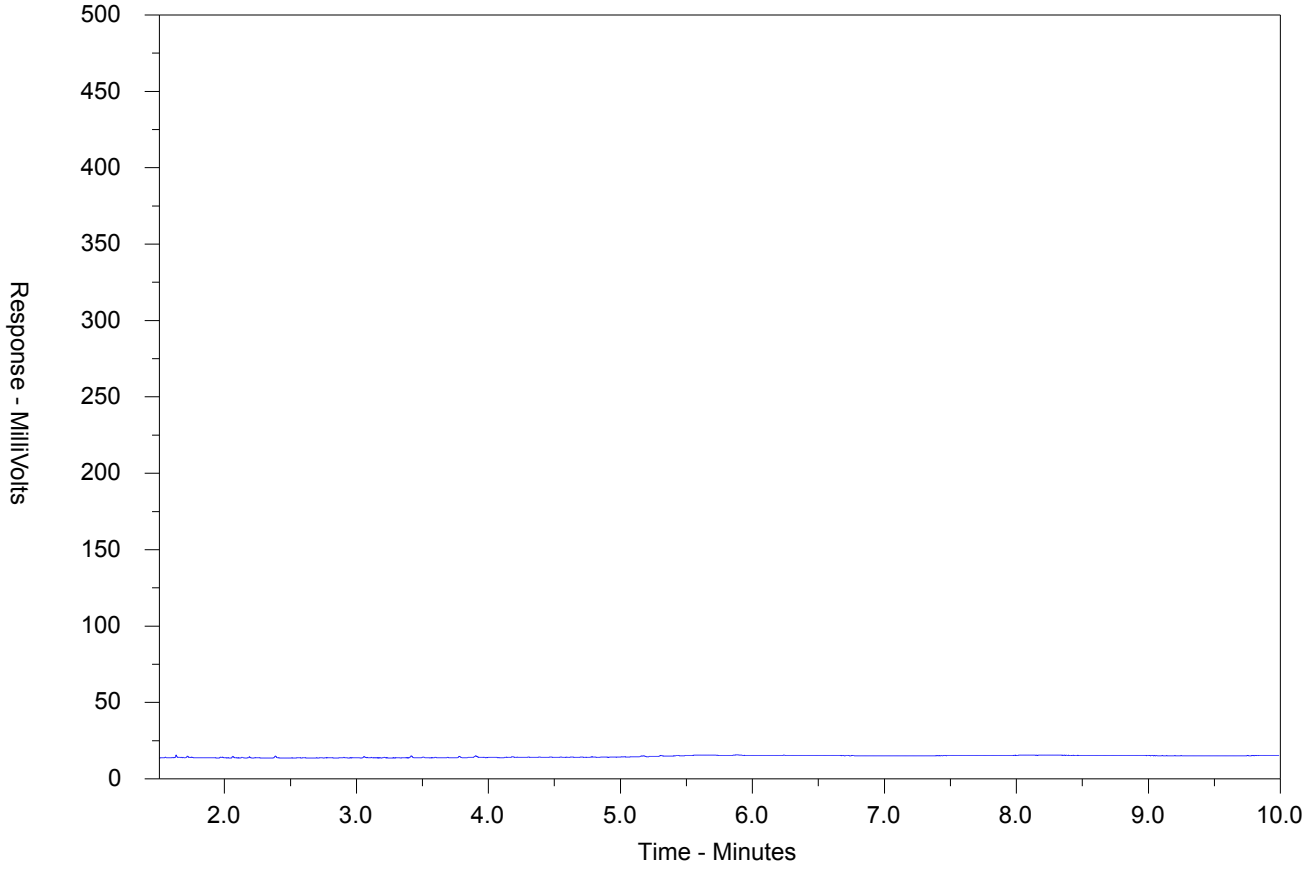
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2411821-005-E601.SG
Client Sample ID: MW5-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

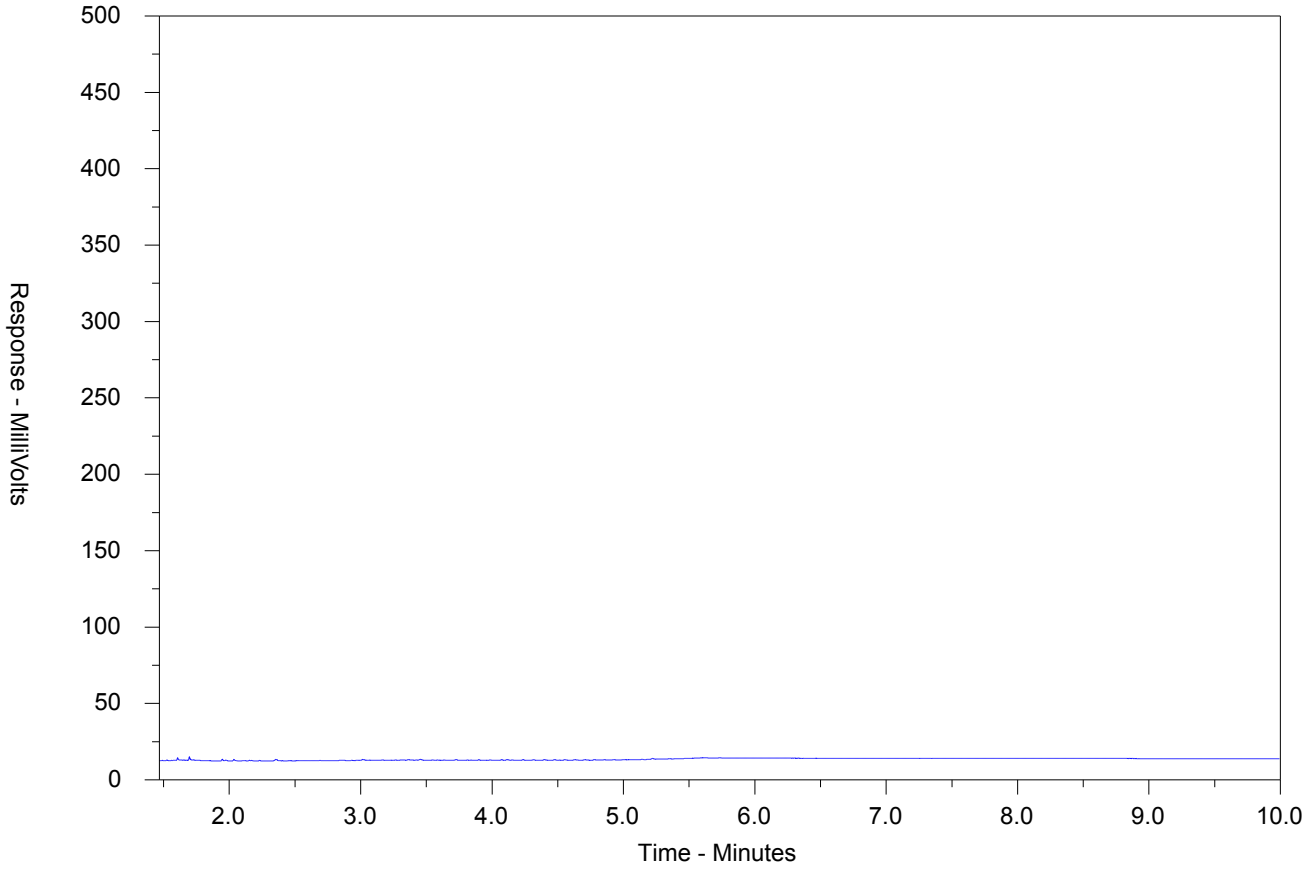
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2411821-006-E601.SG
Client Sample ID: 4-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

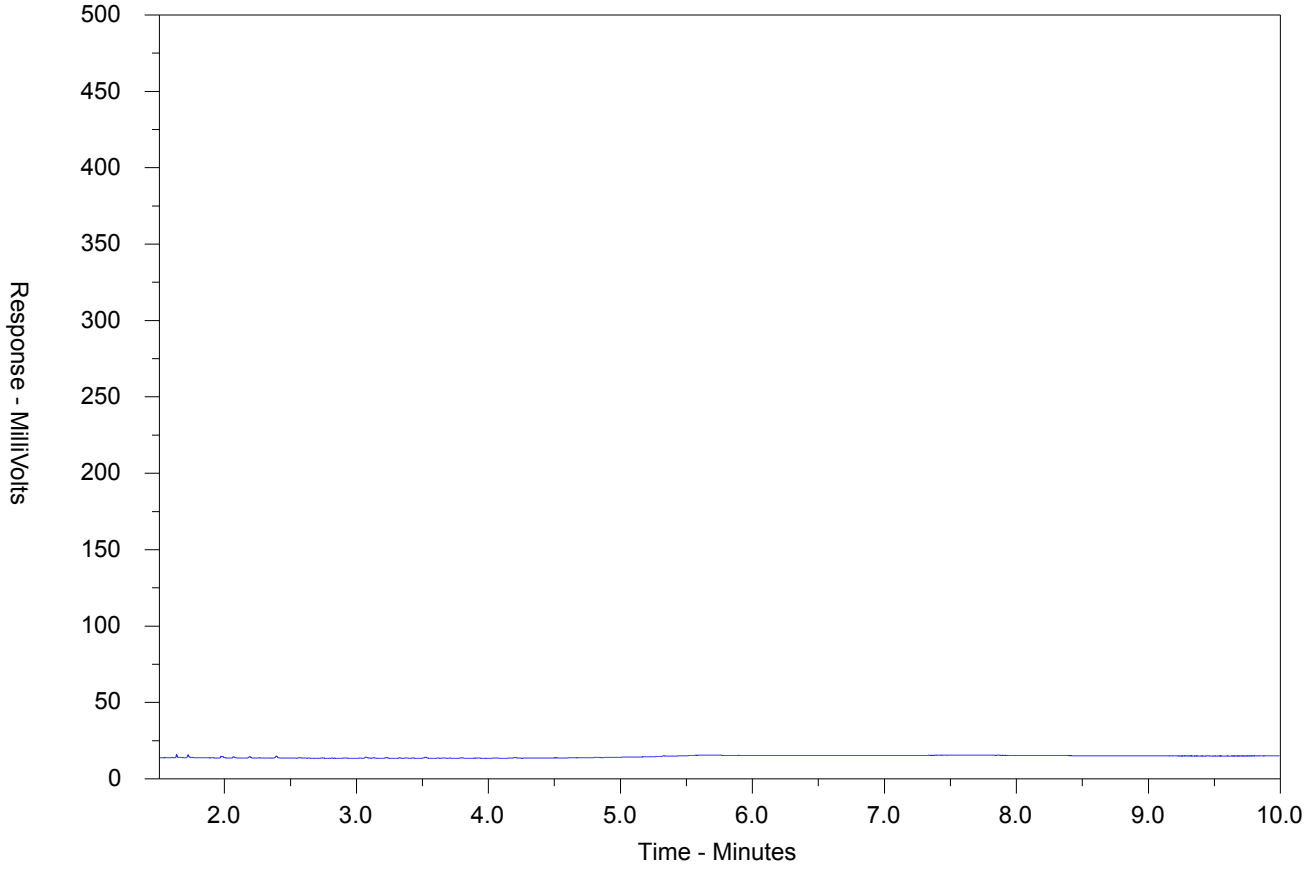
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2411821-007-E601.SG
Client Sample ID: BH219



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

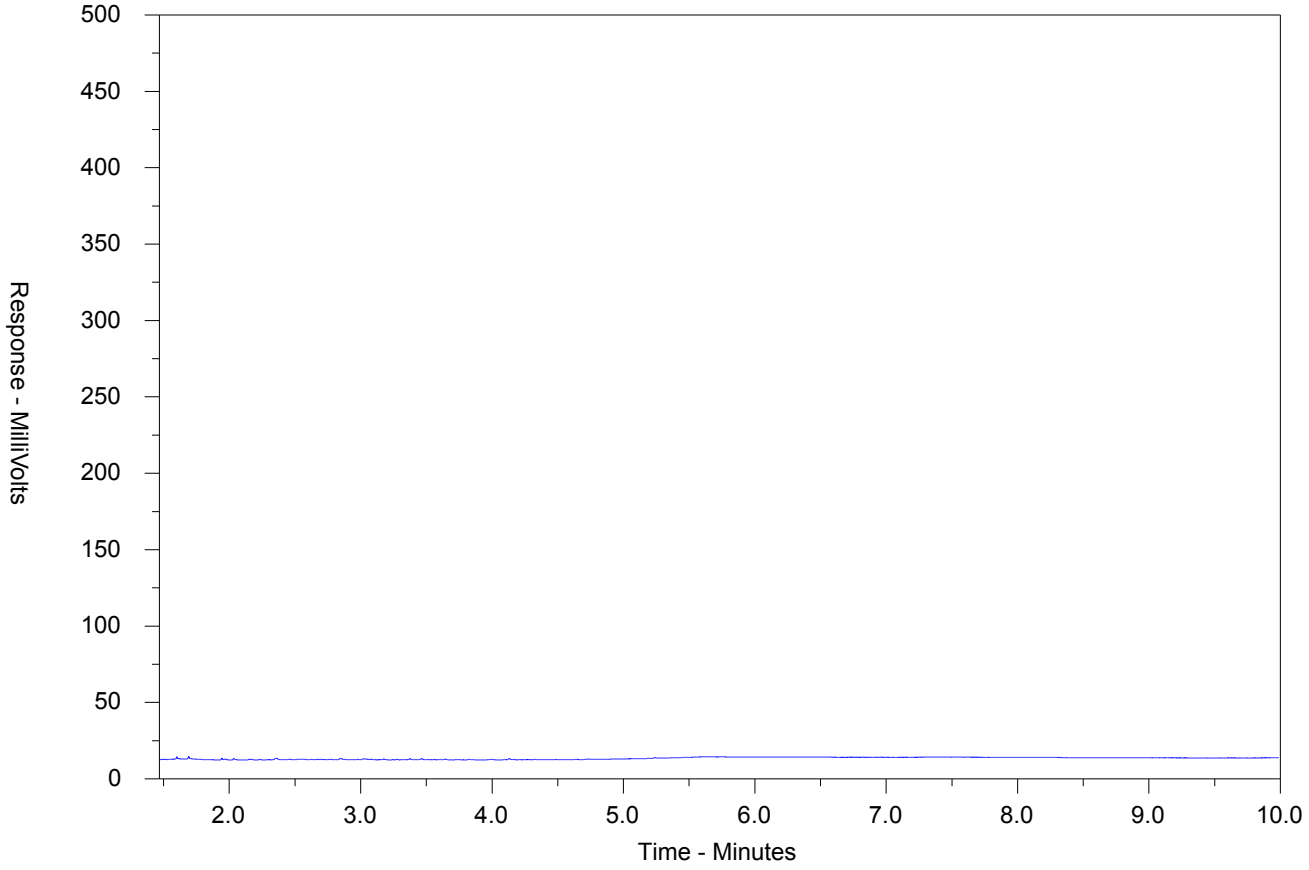
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2411821-008-E601.SG
Client Sample ID: MW-03



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

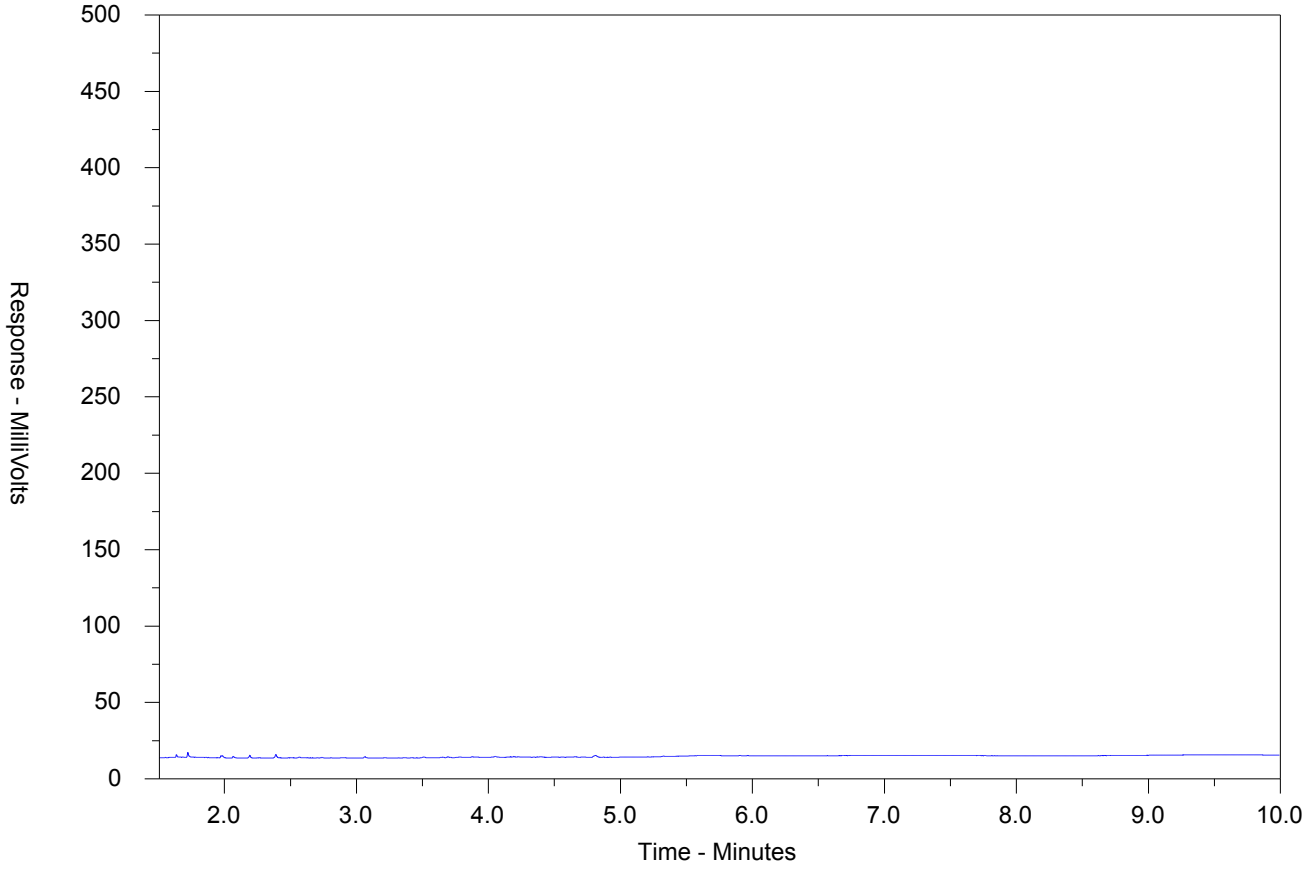
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2411821-009-E601.SG
Client Sample ID: DUP



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

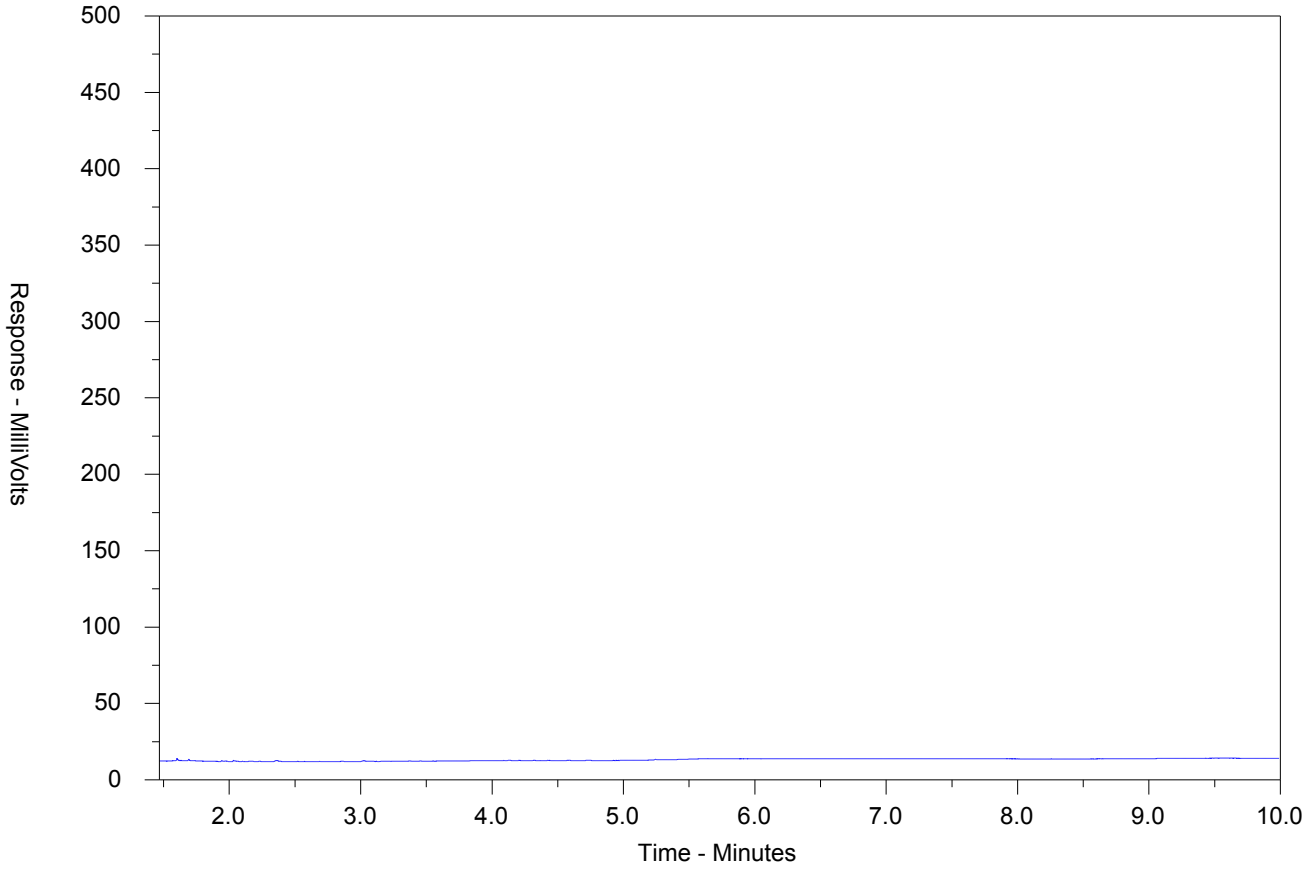
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2411821-010-E601.SG
Client Sample ID: FB



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Canada Toll Free: 1 800 668 9878

Page of

www.alsglobal.com

Environmental Division Waterloo
Work Order Reference
WT2411821

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: pascal.renella@ghd.com
Email 2: See SSOW/PO
Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accountspayableCDN@ghd.com
Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minir
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge mini
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge mini
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge mini
☐ Same day [E2] if received by 10am M-S - 200% rush surcharg
fees may apply to rush resuests on weekends, statutory holiday: routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to

Analysis Re

Indicate Filtered (F), Preserved (P) or Filtered a

Project Information

ALS Account # / Quote #:	GHDL100 / WT2022GHDL1000018
Job #:	11210029
PO / AFE:	735-009459
LSD:	
ALS Lab Work Order # (lab use only):	WT2411821 AH.

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact: Rick H	Sampler:

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Dissolved Metals (Field Filter)	Dissolved Mercury (Field Filter)	Dissolved CrVI (FF)	Total Cyanide	Total Oil and Grease	Chloride	VOC, F1-F4	SVOCs (including PAHs)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRI	SUSPECTED HAZARD (see note
	~~APW1~~	~~10-May-24~~	~~09:15~~	Water		R	R	R	R	R	R	R	R			
	APW1	10-May-24	09:15	GW		✓	✓	✓	✓	✓	✓	✓	✓			
	MW-01		09:30	GW		✓	✓	✓	✓	✓	✓	✓	✓			
	AGW1		10:00	GW		✓	✓	✓	✓	✓	✓	✓	✓			
	MW-02		10:25	GW		✓	✓	✓	✓	✓	✓	✓	✓			
	MW5-23		11:00	GW		✓	✓	✓	✓	✓	✓	✓	✓			
	4-23		11:25	GW		✓	✓	✓	✓	✓	✓	✓	✓			
	BH219		12:25	GW		✓	✓	✓	✓	✓	✓	✓	✓			
	MW-03		13:25	GW		✓	✓	✓	✓	✓	✓	✓	✓			
	DUP		13:25	GW		✓	✓	✓	✓	✓	✓	✓	✓			
	FB		13:35	FB		✓	✓	✓	✓	✓	✓	✓	✓			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO
Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				5.1	5.1		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: [redacted]	Date: 5/10/24	Time: 14:35	Received by:	Date:	Time:	Received by: [redacted]	Date: 05/10/24	Time: 0830

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

MM-579 GC-913 VIN-178 SC-731 OGG-464 CN-795 OR-099/100

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2422924**	Page	: 1 of 45
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 09-Aug-2024 15:00
PO	: 735-009459	Date Analysis Commenced	: 10-Aug-2024
C-O-C number	: ----	Issue Date	: 16-Aug-2024 15:04
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Inorganics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Metals, Waterloo, Ontario
Manuel TavaraTello	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario
Nik Perkio	Senior Analyst	Metals, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Sample Comments

Sample	Client Id	*Comment*
WT2422924-003	MW5-23	RRR: Detection limits raised due to suspected biased high results at or near the detection limit.
WT2422924-004	MW4-23	RRR: Detection limits raised due to suspected biased high results at or near the detection limit.
WT2422924-007	APW1	RRR: Detection limits raised due to suspected biased high results at or near the detection limit.
WT2422924-011	FB	RRR: Detection limits raised due to suspected biased high results at or near the detection limit.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
DLQ	*Detection Limit raised due to co-eluting interference. Mass Spectrometry qualifier ion ratio did not meet acceptance criteria.*
DLUI	*Detection Limit Raised: Unknown interference generated an apparent false positive test result.*
EMPC	*Estimated Maximum Possible Concentration. Parameter detected but didn't meet all criteria for positive identification.*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*
RRR	*Refer to report comments for issues regarding this analysis.*
RRV	*Reported result verified by repeat analysis.*

Analytical Results

WT2422924-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 09-Aug-2024 09:00

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients									
Chloride	16887-00-6	12.9	DLDS,	2.50	mg/L	E235.Cl/WT	13-Aug-2024	14-Aug-2024	1593452
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	12-Aug-2024	12-Aug-2024	1590747
Dissolved Metals									
Aluminum, dissolved	7429-90-5	<0.0100	DLHC,	0.0100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Antimony, dissolved	7440-36-0	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Arsenic, dissolved	7440-38-2	0.00124	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Barium, dissolved	7440-39-3	0.105	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Beryllium, dissolved	7440-41-7	<0.000200	DLHC,	0.000200	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Bismuth, dissolved	7440-69-9	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Boron, dissolved	7440-42-8	0.157	DLHC,	0.100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cadmium, dissolved	7440-43-9	0.000241	DLHC,	0.0000500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Calcium, dissolved	7440-70-2	123	DLHC,	0.500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cesium, dissolved	7440-46-2	<0.000100	DLHC,	0.000100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Chromium, dissolved	7440-47-3	<0.00500	DLHC,	0.00500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cobalt, dissolved	7440-48-4	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Copper, dissolved	7440-50-8	0.0241	DLHC,	0.00200	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Iron, dissolved	7439-89-6	<0.100	DLHC,	0.100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lead, dissolved	7439-92-1	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lithium, dissolved	7439-93-2	<0.0100	DLHC,	0.0100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Magnesium, dissolved	7439-95-4	54.9	DLHC,	0.0500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Manganese, dissolved	7439-96-5	0.113	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	12-Aug-2024	13-Aug-2024	1590230
Molybdenum, dissolved	7439-98-7	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Nickel, dissolved	7440-02-0	0.00810	DLHC,	0.00500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Phosphorus, dissolved	7723-14-0	<0.500	DLHC,	0.500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Potassium, dissolved	7440-09-7	90.7	DLHC,	0.500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Rubidium, dissolved	7440-17-7	0.0162	DLHC,	0.00200	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Selenium, dissolved	7782-49-2	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silicon, dissolved	7440-21-3	4.98	DLHC,	0.500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silver, dissolved	7440-22-4	<0.000100	DLHC,	0.000100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sodium, dissolved	7440-23-5	12.2	DLHC,	0.500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Strontium, dissolved	7440-24-6	0.171	DLHC,	0.00200	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sulfur, dissolved	7704-34-9	13.0	DLHC,	5.00	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tellurium, dissolved	13494-80-9	<0.00200	DLHC,	0.00200	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thallium, dissolved	7440-28-0	0.000106	DLHC,	0.000100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thorium, dissolved	7440-29-1	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tin, dissolved	7440-31-5	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Titanium, dissolved	7440-32-6	<0.00300	DLHC,	0.00300	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tungsten, dissolved	7440-33-7	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Uranium, dissolved	7440-61-1	0.000606	DLHC,	0.000100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Vanadium, dissolved	7440-62-2	<0.00500	DLHC,	0.00500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zinc, dissolved	7440-66-6	0.0469	DLHC,	0.0100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zirconium, dissolved	7440-67-7	<0.00300	DLHC,	0.00300	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Dissolved mercury filtration location	----	Field		-	-	EP509/WT	-	12-Aug-2024	1590230

Analytical Results

WT2422924-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 09-Aug-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Aug-2024	1591216
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Aug-2024	1590327
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	12-Aug-2024	12-Aug-2024	1588968
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207

Analytical Results

WT2422924-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 09-Aug-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Aug-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Aug-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Aug-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	12-Aug-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	81.8	1.0	%	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
Dichlorotoluene, 3,4-	95-75-0	96.7	1.0	%	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.8	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Difluorobenzene, 1,4-	540-36-3	99.8	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	119	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Naphthalene-d8	1146-65-2	99.7	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phenanthrene-d10	1517-22-2	109	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phthalate Esters								

Analytical Results

WT2422924-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW2-20

Client sampling date / time: 09-Aug-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	87.8	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Nitrobenzene-d5	4165-60-0	83.8	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Terphenyl-d14, p-	1718-51-0	102	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	99.1	0.50	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2422924-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: DUP

Client sampling date / time: 09-Aug-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	11.3 DLDS,	2.50	mg/L	E235.Cl/WT	13-Aug-2024	14-Aug-2024	1593452
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	12-Aug-2024	12-Aug-2024	1590747
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0100 DLHC,	0.0100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216

Analytical Results

WT2422924-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 09-Aug-2024 09:00

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals									
Antimony, dissolved	7440-36-0	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Arsenic, dissolved	7440-38-2	0.00123	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Barium, dissolved	7440-39-3	0.101	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Beryllium, dissolved	7440-41-7	<0.000200	DLHC,	0.000200	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Bismuth, dissolved	7440-69-9	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Boron, dissolved	7440-42-8	0.152	DLHC,	0.100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cadmium, dissolved	7440-43-9	0.000262	DLHC,	0.0000500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Calcium, dissolved	7440-70-2	125	DLHC,	0.500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cesium, dissolved	7440-46-2	<0.000100	DLHC,	0.000100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Chromium, dissolved	7440-47-3	<0.00500	DLHC,	0.00500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cobalt, dissolved	7440-48-4	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Copper, dissolved	7440-50-8	0.0228	DLHC,	0.00200	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Iron, dissolved	7439-89-6	<0.100	DLHC,	0.100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lead, dissolved	7439-92-1	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lithium, dissolved	7439-93-2	<0.0100	DLHC,	0.0100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Magnesium, dissolved	7439-95-4	57.2	DLHC,	0.0500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Manganese, dissolved	7439-96-5	0.127	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	12-Aug-2024	13-Aug-2024	1590230
Molybdenum, dissolved	7439-98-7	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Nickel, dissolved	7440-02-0	0.00772	DLHC,	0.00500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Phosphorus, dissolved	7723-14-0	<0.500	DLHC,	0.500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Potassium, dissolved	7440-09-7	87.5	DLHC,	0.500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Rubidium, dissolved	7440-17-7	0.0161	DLHC,	0.00200	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Selenium, dissolved	7782-49-2	<0.000500	DLHC,	0.000500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silicon, dissolved	7440-21-3	4.97	DLHC,	0.500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silver, dissolved	7440-22-4	<0.000100	DLHC,	0.000100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sodium, dissolved	7440-23-5	12.3	DLHC,	0.500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Strontium, dissolved	7440-24-6	0.173	DLHC,	0.00200	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sulfur, dissolved	7704-34-9	13.6	DLHC,	5.00	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tellurium, dissolved	13494-80-9	<0.00200	DLHC,	0.00200	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thallium, dissolved	7440-28-0	0.000108	DLHC,	0.000100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thorium, dissolved	7440-29-1	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tin, dissolved	7440-31-5	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Titanium, dissolved	7440-32-6	<0.00300	DLHC,	0.00300	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tungsten, dissolved	7440-33-7	<0.00100	DLHC,	0.00100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Uranium, dissolved	7440-61-1	0.000614	DLHC,	0.000100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Vanadium, dissolved	7440-62-2	<0.00500	DLHC,	0.00500	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zinc, dissolved	7440-66-6	0.0437	DLHC,	0.0100	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zirconium, dissolved	7440-67-7	<0.00300	DLHC,	0.00300	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Dissolved mercury filtration location	----	Field		-	-	EP509/WT	-	12-Aug-2024	1590230
Dissolved metals filtration location	----	Field		-	-	EP421/WT	-	12-Aug-2024	1591216
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050		0.00050	mg/L	E532A/WT	-	12-Aug-2024	1590327
Aggregate Organics									
Oil & grease (gravimetric)	----	<5.0		5.0	mg/L	E567/WT	12-Aug-2024	12-Aug-2024	1588968

Analytical Results

WT2422924-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 09-Aug-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208

Analytical Results

WT2422924-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: DUP

Client sampling date / time: 09-Aug-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Aug-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Aug-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Aug-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	12-Aug-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	88.3	1.0	%	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
Dichlorotoluene, 3,4-	95-75-0	94.5	1.0	%	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	99.0	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Difluorobenzene, 1,4-	540-36-3	100	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	126	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Naphthalene-d8	1146-65-2	105	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phenanthrene-d10	1517-22-2	113	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Analytical Results

WT2422924-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: DUP

Client sampling date / time: 09-Aug-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	87.6	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Nitrobenzene-d5	4165-60-0	86.0	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Terphenyl-d14, p-	1718-51-0	98.8	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	94.5	0.50	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2422924-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 09-Aug-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	6.96	0.50	mg/L	E235.Cl/WT	13-Aug-2024	14-Aug-2024	1593452
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	12-Aug-2024	12-Aug-2024	1590747
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.168	0.0030	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Antimony, dissolved	7440-36-0	0.00016	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Arsenic, dissolved	7440-38-2	0.00122	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Barium, dissolved	7440-39-3	0.0594	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Boron, dissolved	7440-42-8	0.021	0.010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196

Analytical Results

WT2422924-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 09-Aug-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	0.0000291	0.0000050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Calcium, dissolved	7440-70-2	74.6	0.050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Chromium, dissolved	7440-47-3	0.00043	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Cobalt, dissolved	7440-48-4	0.00080	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Copper, dissolved	7440-50-8	0.00326	0.00050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Iron, dissolved	7439-89-6	0.207	0.010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Lead, dissolved	7439-92-1	0.000912	0.000050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Lithium, dissolved	7439-93-2	0.0018	0.0010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Magnesium, dissolved	7439-95-4	23.8	0.0050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Manganese, dissolved	7439-96-5	0.120	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	12-Aug-2024	13-Aug-2024	1590230
Molybdenum, dissolved	7439-98-7	0.00183	0.000050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Nickel, dissolved	7440-02-0	0.00147	0.00050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Phosphorus, dissolved	7723-14-0	0.243	0.050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Potassium, dissolved	7440-09-7	4.56	0.050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Rubidium, dissolved	7440-17-7	0.00211	0.00020	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Selenium, dissolved	7782-49-2	0.000206	0.000050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Silicon, dissolved	7440-21-3	6.63	0.10	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Sodium, dissolved	7440-23-5	6.72	0.050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Strontium, dissolved	7440-24-6	0.134	0.00020	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Sulfur, dissolved	7704-34-9	2.90	0.50	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Thallium, dissolved	7440-28-0	0.000017	0.000010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Tin, dissolved	7440-31-5	0.00013	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Titanium, dissolved	7440-32-6	0.00561	0.00030	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Uranium, dissolved	7440-61-1	0.000317	0.000010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Vanadium, dissolved	7440-62-2	0.00146	0.00050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Zinc, dissolved	7440-66-6	0.0062	0.0030	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	12-Aug-2024	1590230
Dissolved metals filtration location	----	Field	-	-	EP423/WT	-	14-Aug-2024	1596196
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Aug-2024	1590327
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	12-Aug-2024	12-Aug-2024	1588968
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207

Analytical Results

WT2422924-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 09-Aug-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	13-Aug-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	13-Aug-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130

Analytical Results

WT2422924-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 09-Aug-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Aug-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	12-Aug-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	91.8	1.0	%	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
Dichlorotoluene, 3,4-	95-75-0	85.1	1.0	%	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.4	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Difluorobenzene, 1,4-	540-36-3	99.9	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 1-	90-12-0	0.033	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 1+2-	----	0.074	0.015	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 2-	91-57-6	0.041	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Pyrene	129-00-0	<0.017 DLM,	0.017	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	112	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Naphthalene-d8	1146-65-2	98.7	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phenanthrene-d10	1517-22-2	108	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.24 RRR,	0.24	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Analytical Results

WT2422924-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 09-Aug-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	87.5	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Nitrobenzene-d5	4165-60-0	83.9	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Terphenyl-d14, p-	1718-51-0	97.4	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenol	108-95-2	135	5.00	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	100.0	0.50	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2422924-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 09-Aug-2024 09:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	11.4	0.50	mg/L	E235.Cl/WT	13-Aug-2024	14-Aug-2024	1593452
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	12-Aug-2024	12-Aug-2024	1590747
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0204	0.0030	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Antimony, dissolved	7440-36-0	0.00016	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Arsenic, dissolved	7440-38-2	0.00146	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Barium, dissolved	7440-39-3	0.0722	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Boron, dissolved	7440-42-8	0.014	0.010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Cadmium, dissolved	7440-43-9	0.0000053	0.0000050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Calcium, dissolved	7440-70-2	75.1	0.050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Chromium, dissolved	7440-47-3	0.00039	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Cobalt, dissolved	7440-48-4	0.00033	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196

Analytical Results

WT2422924-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 09-Aug-2024 09:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Copper, dissolved	7440-50-8	0.00194	0.00050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Iron, dissolved	7439-89-6	0.024	0.010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Lead, dissolved	7439-92-1	0.000067	0.000050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Magnesium, dissolved	7439-95-4	29.7	0.0050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Manganese, dissolved	7439-96-5	0.0143	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	12-Aug-2024	13-Aug-2024	1590230
Molybdenum, dissolved	7439-98-7	0.00247	0.000050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Nickel, dissolved	7440-02-0	0.00070	0.00050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Phosphorus, dissolved	7723-14-0	0.120	0.050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Potassium, dissolved	7440-09-7	3.22	0.050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Rubidium, dissolved	7440-17-7	0.00084	0.00020	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Selenium, dissolved	7782-49-2	0.000336	0.000050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Silicon, dissolved	7440-21-3	6.97	0.10	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Sodium, dissolved	7440-23-5	3.88	0.050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Strontium, dissolved	7440-24-6	0.119	0.00020	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Sulfur, dissolved	7704-34-9	6.50	0.50	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Titanium, dissolved	7440-32-6	0.00058	0.00030	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Uranium, dissolved	7440-61-1	0.000710	0.000010	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Vanadium, dissolved	7440-62-2	0.00136	0.00050	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Zinc, dissolved	7440-66-6	<0.0030	0.0030	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E423A/WT	14-Aug-2024	14-Aug-2024	1596196
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	12-Aug-2024	1590230
Dissolved metals filtration location	----	Field	-	-	EP423/WT	-	14-Aug-2024	1596196
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Aug-2024	1590327
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	14-Aug-2024	14-Aug-2024	1590129
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207

Analytical Results

WT2422924-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 09-Aug-2024 09:50

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Dichlorobenzene, 1,2-	95-50-1	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,3-	541-73-1	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,4-	106-46-7	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorodifluoromethane	75-71-8	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,1-	75-34-3	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,2-	107-06-2	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, 1,1-	75-35-4	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, cis-1,2-	156-59-2	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, trans-1,2-	156-60-5	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloromethane	75-09-2	<1.0		1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropane, 1,2-	78-87-5	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50		0.5	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis-1,3-	10061-01-5	<0.30		0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, trans-1,3-	10061-02-6	<0.30		0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Ethylbenzene	100-41-4	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hexane, n-	110-54-3	0.50	OWP.	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl ethyl ketone [MEK]	78-93-3	<20		20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl isobutyl ketone [MIBK]	108-10-1	<20		20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Styrene	100-42-5	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethylene	127-18-4	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Toluene	108-88-3	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,1-	71-55-6	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,2-	79-00-5	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethylene	79-01-6	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichlorofluoromethane	75-69-4	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Vinyl chloride	75-01-4	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, m+p-	179601-23-1	<0.40		0.40	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, o-	95-47-6	<0.30		0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
BTEX, total	----	<1.0		1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hydrocarbons									
F1 (C6-C10)	----	<25		25	µg/L	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	13-Aug-2024	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	13-Aug-2024	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	12-Aug-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370		370	µg/L	EC581SG/WT	-	12-Aug-2024	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	92.1		1.0	%	E601.SG/WT	12-Aug-2024	13-Aug-2024	1591130

Analytical Results

WT2422924-004

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 09-Aug-2024 09:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	85.0	1.0	%	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	99.0	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Difluorobenzene, 1,4-	540-36-3	99.8	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Dibenz(a,h)anthracene	53-70-3	<0.0140 DLM,	0.0140	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Fluorene	86-73-7	0.015 EMPC,	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 1-	90-12-0	0.041	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 1+2-	----	0.088	0.015	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Methylnaphthalene, 2-	91-57-6	0.047	0.010	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Pyrene	129-00-0	<0.021 DLM,	0.021	µg/L	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	127	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Naphthalene-d8	1146-65-2	112	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phenanthrene-d10	1517-22-2	119	0.1	%	E641A/WT	12-Aug-2024	13-Aug-2024	1591131
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	0.63	0.60	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.26 RRR,	0.26	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	65.8	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Nitrobenzene-d5	4165-60-0	64.2	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Analytical Results

WT2422924-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 09-Aug-2024 09:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	79.1	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenol	108-95-2	134	4.21	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	81.7	0.50	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2422924-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AGW1

Client sampling date / time: 09-Aug-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	22.7	0.50	mg/L	E235.Cl/WT	13-Aug-2024	14-Aug-2024	1593706
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	12-Aug-2024	12-Aug-2024	1590747
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Arsenic, dissolved	7440-38-2	0.00324	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Barium, dissolved	7440-39-3	0.0533	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Calcium, dissolved	7440-70-2	72.0	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cobalt, dissolved	7440-48-4	0.00011	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Copper, dissolved	7440-50-8	0.00098	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Iron, dissolved	7439-89-6	0.752	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lithium, dissolved	7439-93-2	0.0034	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Magnesium, dissolved	7439-95-4	39.2	0.0050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216

Analytical Results

WT2422924-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 09-Aug-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Manganese, dissolved	7439-96-5	0.0184	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	12-Aug-2024	13-Aug-2024	1590230
Molybdenum, dissolved	7439-98-7	0.000409	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Potassium, dissolved	7440-09-7	1.04	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Rubidium, dissolved	7440-17-7	0.00020	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silicon, dissolved	7440-21-3	8.84	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sodium, dissolved	7440-23-5	7.76	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Strontium, dissolved	7440-24-6	0.137	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sulfur, dissolved	7704-34-9	15.8	0.50	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Uranium, dissolved	7440-61-1	0.000170	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zinc, dissolved	7440-66-6	0.0748	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	12-Aug-2024	1590230
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Aug-2024	1591216
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Aug-2024	1590327
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	14-Aug-2024	14-Aug-2024	1590129
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207

Analytical Results

WT2422924-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AGW1

Client sampling date / time: 09-Aug-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	14-Aug-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	14-Aug-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Aug-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	12-Aug-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	81.0	1.0	%	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
Dichlorotoluene, 3,4-	95-75-0	99.9	1.0	%	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	97.7	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Difluorobenzene, 1,4-	540-36-3	100	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2422924-005

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: AGW1

Client sampling date / time: 09-Aug-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	113	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Naphthalene-d8	1146-65-2	94.7	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	85.1	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Nitrobenzene-d5	4165-60-0	86.5	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Terphenyl-d14, p-	1718-51-0	101	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Analytical Results

WT2422924-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AGW1

Client sampling date / time: 09-Aug-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	99.6	0.50	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2422924-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 09-Aug-2024 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	58.2 DLDS	2.50	mg/L	E235.Cl/WT	13-Aug-2024	14-Aug-2024	1593706
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	12-Aug-2024	12-Aug-2024	1590747
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0029	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Arsenic, dissolved	7440-38-2	0.00019	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Barium, dissolved	7440-39-3	0.0653	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Boron, dissolved	7440-42-8	0.032	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cadmium, dissolved	7440-43-9	0.0000254	0.0000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Calcium, dissolved	7440-70-2	116	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cobalt, dissolved	7440-48-4	0.00018	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Copper, dissolved	7440-50-8	0.00119	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Magnesium, dissolved	7439-95-4	39.6	0.0050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Manganese, dissolved	7439-96-5	0.0112	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	12-Aug-2024	13-Aug-2024	1590230
Molybdenum, dissolved	7439-98-7	0.000225	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216

Analytical Results

WT2422924-006

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 09-Aug-2024 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Potassium, dissolved	7440-09-7	11.7	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Rubidium, dissolved	7440-17-7	0.00054	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Selenium, dissolved	7782-49-2	0.00132	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silicon, dissolved	7440-21-3	4.48	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sodium, dissolved	7440-23-5	29.7	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Strontium, dissolved	7440-24-6	0.144	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sulfur, dissolved	7704-34-9	14.0	0.50	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thallium, dissolved	7440-28-0	0.000014	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Uranium, dissolved	7440-61-1	0.000318	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zinc, dissolved	7440-66-6	0.0060	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	12-Aug-2024	1590230
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Aug-2024	1591216
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Aug-2024	1590327
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	14-Aug-2024	14-Aug-2024	1590129
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207

Analytical Results

WT2422924-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 09-Aug-2024 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	14-Aug-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	14-Aug-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Aug-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	12-Aug-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.2	1.0	%	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
Dichlorotoluene, 3,4-	95-75-0	92.2	1.0	%	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.6	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Difluorobenzene, 1,4-	540-36-3	100	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325

Analytical Results

WT2422924-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 09-Aug-2024 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(g,h,i)perylene	191-24-2	0.060	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Indeno(1,2,3-c,d)pyrene	193-39-5	0.043	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 1-	90-12-0	0.031	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 1+2-	----	0.068	0.015	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 2-	91-57-6	0.037	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Pyrene	129-00-0	<0.021 DLQ	0.021	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	126	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Naphthalene-d8	1146-65-2	105	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phenanthrene-d10	1517-22-2	110	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.8	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Nitrobenzene-d5	4165-60-0	89.0	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Terphenyl-d14, p-	1718-51-0	96.0	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Analytical Results

WT2422924-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 09-Aug-2024 11:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	98.0	0.50	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2422924-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 09-Aug-2024 11:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	5.29	0.50	mg/L	E235.Cl/WT	13-Aug-2024	14-Aug-2024	1593706
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	12-Aug-2024	12-Aug-2024	1590747
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0069	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Arsenic, dissolved	7440-38-2	0.00459	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Barium, dissolved	7440-39-3	0.0720	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Boron, dissolved	7440-42-8	0.015	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Calcium, dissolved	7440-70-2	47.0	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Copper, dissolved	7440-50-8	0.00050	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Iron, dissolved	7439-89-6	0.177	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lithium, dissolved	7439-93-2	0.0029	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Magnesium, dissolved	7439-95-4	30.0	0.0050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Manganese, dissolved	7439-96-5	0.00614	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	12-Aug-2024	13-Aug-2024	1590230
Molybdenum, dissolved	7439-98-7	0.000597	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Potassium, dissolved	7440-09-7	1.05	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Rubidium, dissolved	7440-17-7	0.00040	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Selenium, dissolved	7782-49-2	0.000528	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silicon, dissolved	7440-21-3	7.61	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216

Analytical Results

WT2422924-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 09-Aug-2024 11:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sodium, dissolved	7440-23-5	6.50	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Strontium, dissolved	7440-24-6	0.430	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sulfur, dissolved	7704-34-9	9.68	0.50	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Uranium, dissolved	7440-61-1	0.000410	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	12-Aug-2024	1590230
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Aug-2024	1591216
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Aug-2024	1590327
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	14-Aug-2024	14-Aug-2024	1590129
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207

Analytical Results

WT2422924-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 09-Aug-2024 11:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	14-Aug-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	14-Aug-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Aug-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	12-Aug-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.3	1.0	%	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
Dichlorotoluene, 3,4-	95-75-0	91.3	1.0	%	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	97.8	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Difluorobenzene, 1,4-	540-36-3	99.9	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325

Analytical Results

WT2422924-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 09-Aug-2024 11:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	128	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Naphthalene-d8	1146-65-2	106	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phenanthrene-d10	1517-22-2	116	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.26 RRR.	0.26	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	86.6	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Nitrobenzene-d5	4165-60-0	83.5	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Terphenyl-d14, p-	1718-51-0	104	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	95.5	0.50	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2422924-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 09-Aug-2024 12:00

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients									
Chloride	16887-00-6	9.10	DLDS,	2.50	mg/L	E235.Cl/WT	13-Aug-2024	14-Aug-2024	1593706
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	12-Aug-2024	12-Aug-2024	1590747
Dissolved Metals									
Aluminum, dissolved	7429-90-5	0.0130		0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Antimony, dissolved	7440-36-0	<0.00010		0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Arsenic, dissolved	7440-38-2	0.00041		0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Barium, dissolved	7440-39-3	0.0541		0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Beryllium, dissolved	7440-41-7	<0.000020		0.000020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Bismuth, dissolved	7440-69-9	<0.000050		0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Boron, dissolved	7440-42-8	0.012		0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cadmium, dissolved	7440-43-9	<0.0000050		0.0000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Calcium, dissolved	7440-70-2	103		0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cesium, dissolved	7440-46-2	<0.000010		0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Chromium, dissolved	7440-47-3	<0.00050		0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cobalt, dissolved	7440-48-4	<0.00010		0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Copper, dissolved	7440-50-8	0.00085		0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Iron, dissolved	7439-89-6	0.015		0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lead, dissolved	7439-92-1	0.000074		0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lithium, dissolved	7439-93-2	0.0031		0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Magnesium, dissolved	7439-95-4	51.1		0.0050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Manganese, dissolved	7439-96-5	0.00486		0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	12-Aug-2024	14-Aug-2024	1590235
Molybdenum, dissolved	7439-98-7	0.000576		0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Nickel, dissolved	7440-02-0	<0.00050		0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Phosphorus, dissolved	7723-14-0	<0.050		0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Potassium, dissolved	7440-09-7	1.35		0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Rubidium, dissolved	7440-17-7	0.00069		0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Selenium, dissolved	7782-49-2	0.000112		0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silicon, dissolved	7440-21-3	7.56		0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silver, dissolved	7440-22-4	<0.000010		0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sodium, dissolved	7440-23-5	5.42		0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Strontium, dissolved	7440-24-6	0.158		0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sulfur, dissolved	7704-34-9	7.54		0.50	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tellurium, dissolved	13494-80-9	<0.00020		0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thallium, dissolved	7440-28-0	<0.000010		0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thorium, dissolved	7440-29-1	<0.00010		0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tin, dissolved	7440-31-5	<0.00010		0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Titanium, dissolved	7440-32-6	<0.00060	DLUI,	0.00060	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tungsten, dissolved	7440-33-7	<0.00010		0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Uranium, dissolved	7440-61-1	0.000922		0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Vanadium, dissolved	7440-62-2	0.00124		0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zinc, dissolved	7440-66-6	0.0010		0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zirconium, dissolved	7440-67-7	<0.00030		0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Dissolved mercury filtration location	----	Field		-	-	EP509/WT	-	12-Aug-2024	1590235

Analytical Results

WT2422924-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 09-Aug-2024 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Aug-2024	1591216
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Aug-2024	1590327
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	14-Aug-2024	14-Aug-2024	1590129
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207

Analytical Results

WT2422924-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 09-Aug-2024 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	14-Aug-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	14-Aug-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Aug-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	12-Aug-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.3	1.0	%	E601.SG/WT	13-Aug-2024	13-Aug-2024	1592326
Dichlorotoluene, 3,4-	95-75-0	93.3	1.0	%	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.5	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Difluorobenzene, 1,4-	540-36-3	99.5	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(b+j)fluoranthene	n/a	0.011	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Methylnaphthalene, 2-	91-57-6	0.012	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	127	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Naphthalene-d8	1146-65-2	107	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phenanthrene-d10	1517-22-2	116	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592325
Phthalate Esters								

Analytical Results

WT2422924-008

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW3-20

Client sampling date / time: 09-Aug-2024 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	85.8	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Nitrobenzene-d5	4165-60-0	84.7	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Terphenyl-d14, p-	1718-51-0	97.9	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	95.4	0.50	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2422924-009

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 09-Aug-2024 12:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	9.29	0.50	mg/L	E235.Cl/WT	13-Aug-2024	14-Aug-2024	1593706
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	12-Aug-2024	12-Aug-2024	1590747
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0012	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216

Analytical Results

WT2422924-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 09-Aug-2024 12:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Arsenic, dissolved	7440-38-2	0.00046	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Barium, dissolved	7440-39-3	0.0265	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cadmium, dissolved	7440-43-9	0.0000492	0.0000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Calcium, dissolved	7440-70-2	58.9	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cobalt, dissolved	7440-48-4	0.00117	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Copper, dissolved	7440-50-8	0.00116	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Magnesium, dissolved	7439-95-4	23.6	0.0050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Manganese, dissolved	7439-96-5	0.577	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	12-Aug-2024	14-Aug-2024	1590235
Molybdenum, dissolved	7439-98-7	0.000816	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Nickel, dissolved	7440-02-0	0.00270	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Potassium, dissolved	7440-09-7	2.82	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Rubidium, dissolved	7440-17-7	0.00077	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silicon, dissolved	7440-21-3	3.68	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sodium, dissolved	7440-23-5	3.11	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Strontium, dissolved	7440-24-6	0.0925	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sulfur, dissolved	7704-34-9	1.32	0.50	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thallium, dissolved	7440-28-0	0.000042	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Uranium, dissolved	7440-61-1	0.000193	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zinc, dissolved	7440-66-6	0.0095	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	12-Aug-2024	1590235
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Aug-2024	1591216
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Aug-2024	1590327
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	14-Aug-2024	14-Aug-2024	1590129

Analytical Results

WT2422924-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 09-Aug-2024 12:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208

Analytical Results

WT2422924-009

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 09-Aug-2024 12:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	14-Aug-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	14-Aug-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Aug-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	12-Aug-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	78.3	1.0	%	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
Dichlorotoluene, 3,4-	95-75-0	94.9	1.0	%	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	104	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Difluorobenzene, 1,4-	540-36-3	99.5	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	106	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Naphthalene-d8	1146-65-2	98.9	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Analytical Results

WT2422924-009

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 09-Aug-2024 12:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	83.8	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Nitrobenzene-d5	4165-60-0	95.1	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Terphenyl-d14, p-	1718-51-0	94.9	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	91.7	0.50	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2422924-010

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 09-Aug-2024 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.42 DLDS	2.50	mg/L	E235.Cl/WT	13-Aug-2024	14-Aug-2024	1593706
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	12-Aug-2024	12-Aug-2024	1590747
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0042	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Arsenic, dissolved	7440-38-2	0.00013	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Barium, dissolved	7440-39-3	0.182	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Boron, dissolved	7440-42-8	0.017	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216

Analytical Results

WT2422924-010

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 09-Aug-2024 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	0.0000451	0.0000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Calcium, dissolved	7440-70-2	120	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Copper, dissolved	7440-50-8	0.00131	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lead, dissolved	7439-92-1	0.000080	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lithium, dissolved	7439-93-2	0.0024	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Magnesium, dissolved	7439-95-4	54.3	0.0050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Manganese, dissolved	7439-96-5	0.00047	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	12-Aug-2024	14-Aug-2024	1590235
Molybdenum, dissolved	7439-98-7	0.000206	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Potassium, dissolved	7440-09-7	1.63	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Rubidium, dissolved	7440-17-7	0.00109	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Selenium, dissolved	7782-49-2	0.000385	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silicon, dissolved	7440-21-3	7.70	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sodium, dissolved	7440-23-5	4.45	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Strontium, dissolved	7440-24-6	0.156	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sulfur, dissolved	7704-34-9	14.1	0.50	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Uranium, dissolved	7440-61-1	0.000873	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zinc, dissolved	7440-66-6	0.0176	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	12-Aug-2024	1590235
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Aug-2024	1591216
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Aug-2024	1590327
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	14-Aug-2024	14-Aug-2024	1590129
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207

Analytical Results

WT2422924-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 09-Aug-2024 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	14-Aug-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	14-Aug-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366

Analytical Results

WT2422924-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 09-Aug-2024 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Aug-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	12-Aug-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	88.8	1.0	%	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
Dichlorotoluene, 3,4-	95-75-0	86.6	1.0	%	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	99.8	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Difluorobenzene, 1,4-	540-36-3	98.6	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Methylnaphthalene, 1-	90-12-0	0.031	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Methylnaphthalene, 1+2-	----	0.069	0.015	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Methylnaphthalene, 2-	91-57-6	0.038	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Pyrene	129-00-0	0.013	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	112	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Naphthalene-d8	1146-65-2	107	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Phenanthrene-d10	1517-22-2	106	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Analytical Results

WT2422924-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 09-Aug-2024 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	87.6	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Nitrobenzene-d5	4165-60-0	84.2	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Terphenyl-d14, p-	1718-51-0	98.7	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	94.9	0.50	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2422924-011

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 09-Aug-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/WT	13-Aug-2024	14-Aug-2024	1593706
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	12-Aug-2024	12-Aug-2024	1590747
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Barium, dissolved	7440-39-3	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Calcium, dissolved	7440-70-2	<0.050	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216

Analytical Results

WT2422924-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 09-Aug-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Magnesium, dissolved	7439-95-4	<0.0050	0.0050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Manganese, dissolved	7439-96-5	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	12-Aug-2024	14-Aug-2024	1590235
Molybdenum, dissolved	7439-98-7	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Potassium, dissolved	7440-09-7	<0.050	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Rubidium, dissolved	7440-17-7	<0.00020	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silicon, dissolved	7440-21-3	<0.050	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sodium, dissolved	7440-23-5	<0.050	0.050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Strontium, dissolved	7440-24-6	<0.00020	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tin, dissolved	7440-31-5	0.00013 RRV.	0.00010	mg/L	E421/WT	12-Aug-2024	13-Aug-2024	1591216
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Aug-2024	12-Aug-2024	1591216
Dissolved mercury filtration location	----	N/A	-	-	EP509/WT	-	12-Aug-2024	1590235
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Aug-2024	1591216
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Aug-2024	1590327
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	14-Aug-2024	14-Aug-2024	1590129
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207

Analytical Results

WT2422924-011

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 09-Aug-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	14-Aug-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	14-Aug-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	12-Aug-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	12-Aug-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.7	1.0	%	E601.SG/WT	13-Aug-2024	15-Aug-2024	1592366

Analytical Results

WT2422924-011

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 09-Aug-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	112	1.0	%	E581.F1-L/WT	10-Aug-2024	10-Aug-2024	1589208
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.0	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Difluorobenzene, 1,4-	540-36-3	99.4	1.0	%	E611D/WT	10-Aug-2024	10-Aug-2024	1589207
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	103	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Naphthalene-d8	1146-65-2	100	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Phenanthrene-d10	1517-22-2	102	0.1	%	E641A/WT	13-Aug-2024	14-Aug-2024	1592365
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.26 RRR.	0.26	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	90.8	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Nitrobenzene-d5	4165-60-0	90.9	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Analytical Results

WT2422924-011

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 09-Aug-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	108	1.0	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	14-Aug-2024	14-Aug-2024	1594582
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	94.1	0.50	%	E625A/WT	14-Aug-2024	14-Aug-2024	1594582

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

ALS Canada Ltd.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2422924**	Page	: 1 of 26
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 09-Aug-2024 15:00
PO	: 735-009459	Issue Date	: 16-Aug-2024 15:05
C-O-C number	: ----		
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Matrix Spike outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Dissolved Metals	QC-1596196-002	----	Phosphorus, dissolved	7723-14-0	E423A	122 % MES	80.0-120%	Recovery greater than upper control limit
Dissolved Metals	QC-1596196-002	----	Silicon, dissolved	7440-21-3	E423A	123 % MES	80.0-120%	Recovery greater than upper control limit
Dissolved Metals	QC-1596196-002	----	Sulfur, dissolved	7704-34-9	E423A	129 % MES	80.0-120%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	*Description*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) DUP	E567	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	12-Aug-2024	28 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW2-20	E567	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	12-Aug-2024	28 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW5-23	E567	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	12-Aug-2024	28 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AGW1	E567	09-Aug-2024	14-Aug-2024	28 days	5 days	✓	14-Aug-2024	28 days	5 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) APW1	E567	09-Aug-2024	14-Aug-2024	28 days	5 days	✓	14-Aug-2024	28 days	5 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH213	E567	09-Aug-2024	14-Aug-2024	28 days	5 days	✓	14-Aug-2024	28 days	5 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH219	E567	09-Aug-2024	14-Aug-2024	28 days	5 days	✓	14-Aug-2024	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) FB	E567	09-Aug-2024	14-Aug-2024	28 days	5 days	✓	14-Aug-2024	28 days	5 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW1-20	E567	09-Aug-2024	14-Aug-2024	28 days	5 days	✓	14-Aug-2024	28 days	5 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW3-20	E567	09-Aug-2024	14-Aug-2024	28 days	5 days	✓	14-Aug-2024	28 days	5 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW4-23	E567	09-Aug-2024	14-Aug-2024	28 days	5 days	✓	14-Aug-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] AGW1	E235.Cl	09-Aug-2024	13-Aug-2024	28 days	4 days	✓	14-Aug-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] APW1	E235.Cl	09-Aug-2024	13-Aug-2024	28 days	4 days	✓	14-Aug-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH213	E235.Cl	09-Aug-2024	13-Aug-2024	28 days	4 days	✓	14-Aug-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] BH219	E235.Cl	09-Aug-2024	13-Aug-2024	28 days	4 days	✓	14-Aug-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] DUP	E235.Cl	09-Aug-2024	13-Aug-2024	28 days	4 days	✓	14-Aug-2024	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] FB	E235.Cl	09-Aug-2024	13-Aug-2024	28 days	4 days	✓	14-Aug-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW1-20	E235.Cl	09-Aug-2024	13-Aug-2024	28 days	4 days	✓	14-Aug-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW2-20	E235.Cl	09-Aug-2024	13-Aug-2024	28 days	4 days	✓	14-Aug-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW3-20	E235.Cl	09-Aug-2024	13-Aug-2024	28 days	4 days	✓	14-Aug-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW4-23	E235.Cl	09-Aug-2024	13-Aug-2024	28 days	4 days	✓	14-Aug-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW5-23	E235.Cl	09-Aug-2024	13-Aug-2024	28 days	4 days	✓	14-Aug-2024	28 days	5 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] AGW1	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] APW1	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] BH213	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
BH219	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
DUP	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
FB	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW1-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW2-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW3-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW4-23	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
AGW1	E333	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	12-Aug-2024	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) APW1	E333	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	12-Aug-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) BH213	E333	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	12-Aug-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) BH219	E333	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	12-Aug-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) DUP	E333	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	12-Aug-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) FB	E333	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	12-Aug-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW1-20	E333	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	12-Aug-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW2-20	E333	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	12-Aug-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW3-20	E333	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	12-Aug-2024	14 days	3 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW4-23	E333	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	12-Aug-2024	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW5-23	E333	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	12-Aug-2024	14 days	3 days	✓
Dissolved Metals : Digested Dissolved Metals by CRC ICPMS										
HDPE dissolved (nitric acid) MW4-23	E423A	09-Aug-2024	14-Aug-2024	180 days	5 days	✓	14-Aug-2024	180 days	6 days	✓
Dissolved Metals : Digested Dissolved Metals by CRC ICPMS										
HDPE dissolved (nitric acid) MW5-23	E423A	09-Aug-2024	14-Aug-2024	180 days	5 days	✓	14-Aug-2024	180 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) AGW1	E509	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	13-Aug-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) APW1	E509	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	13-Aug-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) DUP	E509	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	13-Aug-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW1-20	E509	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	13-Aug-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW2-20	E509	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	13-Aug-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW4-23	E509	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	13-Aug-2024	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW5-23	E509	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	13-Aug-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH213	E509	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	14-Aug-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH219	E509	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	14-Aug-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) FB	E509	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	14-Aug-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) MW3-20	E509	09-Aug-2024	12-Aug-2024	28 days	3 days	✓	14-Aug-2024	28 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) AGW1	E421	09-Aug-2024	12-Aug-2024	180 days	3 days	✓	12-Aug-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) APW1	E421	09-Aug-2024	12-Aug-2024	180 days	3 days	✓	12-Aug-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH213	E421	09-Aug-2024	12-Aug-2024	180 days	3 days	✓	12-Aug-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH219	E421	09-Aug-2024	12-Aug-2024	180 days	3 days	✓	12-Aug-2024	180 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
DUP	E421	09-Aug-2024	12-Aug-2024	180 days	3 days	✓	12-Aug-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
FB	E421	09-Aug-2024	12-Aug-2024	180 days	3 days	✓	12-Aug-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW1-20	E421	09-Aug-2024	12-Aug-2024	180 days	3 days	✓	12-Aug-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW2-20	E421	09-Aug-2024	12-Aug-2024	180 days	3 days	✓	12-Aug-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
MW3-20	E421	09-Aug-2024	12-Aug-2024	180 days	3 days	✓	12-Aug-2024	180 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
AGW1	E581.F1-L	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
APW1	E581.F1-L	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH213	E581.F1-L	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
BH219	E581.F1-L	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) DUP	E581.F1-L	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) FB	E581.F1-L	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW1-20	E581.F1-L	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW2-20	E581.F1-L	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW3-20	E581.F1-L	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW4-23	E581.F1-L	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW5-23	E581.F1-L	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) DUP	E601.SG	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	13-Aug-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW2-20	E601.SG	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	13-Aug-2024	40 days	1 days	✓

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23	E601.SG	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	13-Aug-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW5-23	E601.SG	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	13-Aug-2024	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
AGW1	E601.SG	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	13-Aug-2024	40 days	0 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
APW1	E601.SG	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	13-Aug-2024	40 days	0 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW1-20	E601.SG	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	13-Aug-2024	40 days	0 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW3-20	E601.SG	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	13-Aug-2024	40 days	0 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH213	E601.SG	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	15-Aug-2024	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
BH219	E601.SG	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	15-Aug-2024	40 days	2 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
FB	E601.SG	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	15-Aug-2024	40 days	2 days	✓

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
AGW1	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
APW1	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
BH213	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
BH219	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
DUP	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
FB	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW1-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW2-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW3-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW4-23	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
AGW1	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
APW1	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
BH213	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
BH219	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
DUP	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
FB	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW1-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓

Matrix: **Water**

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW2-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW3-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW4-23	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
DUP	E641A	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	13-Aug-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW2-20	E641A	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	13-Aug-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23	E641A	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	13-Aug-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW5-23	E641A	09-Aug-2024	12-Aug-2024	14 days	3 days	✓	13-Aug-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
AGW1	E641A	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	14-Aug-2024	40 days	1 days	✓

Matrix: **Water**

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) APW1	E641A	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	14-Aug-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) BH213	E641A	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	14-Aug-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) BH219	E641A	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	14-Aug-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) FB	E641A	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	14-Aug-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW1-20	E641A	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	14-Aug-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW3-20	E641A	09-Aug-2024	13-Aug-2024	14 days	4 days	✓	14-Aug-2024	40 days	1 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] AGW1	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] APW1	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] BH213	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
BH219	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
DUP	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
FB	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW1-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW2-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW3-20	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW4-23	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS/MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	09-Aug-2024	14-Aug-2024	14 days	5 days	✓	14-Aug-2024	40 days	0 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AGW1	E532A	09-Aug-2024	----	----	----		12-Aug-2024	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
APW1	E532A	09-Aug-2024	----	----	----		12-Aug-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH213	E532A	09-Aug-2024	----	----	----		12-Aug-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH219	E532A	09-Aug-2024	----	----	----		12-Aug-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
DUP	E532A	09-Aug-2024	----	----	----		12-Aug-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
FB	E532A	09-Aug-2024	----	----	----		12-Aug-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW1-20	E532A	09-Aug-2024	----	----	----		12-Aug-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW2-20	E532A	09-Aug-2024	----	----	----		12-Aug-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW3-20	E532A	09-Aug-2024	----	----	----		12-Aug-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW4-23	E532A	09-Aug-2024	----	----	----		12-Aug-2024	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW5-23	E532A	09-Aug-2024	----	----	----		12-Aug-2024	28 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
AGW1	E611D	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
APW1	E611D	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH213	E611D	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
BH219	E611D	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
DUP	E611D	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
FB	E611D	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW1-20	E611D	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW2-20	E611D	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW3-20	E611D	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW4-23	E611D	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW5-23	E611D	09-Aug-2024	10-Aug-2024	14 days	1 days	✓	10-Aug-2024	14 days	1 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1589208	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	1593452	2	25	8.0	5.0	✓
Digested Dissolved Metals by CRC ICPMS	E423A	1596196	1	3	33.3	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1590327	1	15	6.6	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1590230	2	35	5.7	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1591216	1	16	6.2	5.0	✓
Total Cyanide	E333	1590747	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1589207	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
BNA (Routine List) by GC-MS/MS	E625A	1594582	1	18	5.5	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1589208	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	1593452	2	25	8.0	5.0	✓
Digested Dissolved Metals by CRC ICPMS	E423A	1596196	1	3	33.3	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1590327	1	15	6.6	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1590230	2	35	5.7	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1591216	1	16	6.2	5.0	✓
Oil & Grease by Gravimetry	E567	1588968	2	39	5.1	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1591131	3	27	11.1	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1591130	3	44	6.8	5.0	✓
Total Cyanide	E333	1590747	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1589207	1	20	5.0	5.0	✓
Method Blanks (MB)							
BNA (Routine List) by GC-MS/MS	E625A	1594582	1	18	5.5	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1589208	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	1593452	2	25	8.0	5.0	✓
Digested Dissolved Metals by CRC ICPMS	E423A	1596196	1	3	33.3	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1590327	1	15	6.6	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1590230	2	35	5.7	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1591216	1	16	6.2	5.0	✓
Oil & Grease by Gravimetry	E567	1588968	2	39	5.1	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1591131	3	27	11.1	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1591130	3	44	6.8	5.0	✓
Total Cyanide	E333	1590747	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1589207	1	20	5.0	5.0	✓
Matrix Spikes (MS)							

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1589208	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	1593452	2	25	8.0	5.0	✓
Digested Dissolved Metals by CRC ICPMS	E423A	1596196	1	3	33.3	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1590327	1	15	6.6	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1590230	2	35	5.7	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1591216	1	16	6.2	5.0	✓
Total Cyanide	E333	1590747	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1589207	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Total Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Digested Dissolved Metals by CRC ICPMS	E423A ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45um), digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS.
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A ALS Environmental - Waterloo	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
Oil & Grease by Gravimetry	E567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
BNA (Routine List) by GC-MS/MS	E625A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS/MS.
PAHs in Water by Hexane LVI GC-MS	E641A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
F1-BTEX	EC580 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Metals Water Digestion and Filtration	EP423 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um) and digested with nitric and hydrochloric acids.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
BNA Extraction	EP625 ALS Environmental - Waterloo	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.

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QUALITY CONTROL REPORT

Work Order	: **WT2422924**	Page	: 1 of 25
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 09-Aug-2024 15:00
PO	: 735-009459	Date Analysis Commenced	: 10-Aug-2024
C-O-C number	: ----	Issue Date	: 16-Aug-2024 15:05
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Waterloo Metals, Waterloo, Ontario
Manuel TavaraTello	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario
Nik Perkio	Senior Analyst	Waterloo Metals, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Anions and Nutrients (QC Lot: 1593452)											
WT2422909-001	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	155000 µg/L	155	0.0321%	20%	----
Anions and Nutrients (QC Lot: 1593706)											
WT2422630-001	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	24200 µg/L	24.2	0.183%	20%	----
Cyanides (QC Lot: 1590747)											
CG2411096-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1590230)											
HA2401870-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1590235)											
TY2408498-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1591216)											
WT2422924-009	BH213	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0012	<0.0010	0.0002	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00046	0.00047	0.000005	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0265	0.0262	1.44%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	0.013	0.013	0.00002	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	0.0000492	0.0000463	0.0000029	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	58.9	58.2	1.17%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	0.00117	0.00113	2.93%	20%	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00116	0.00116	0.000004	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	23.6	23.7	0.258%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.577	0.569	1.43%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000816	0.000810	0.738%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.00270	0.00271	0.00002	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1591216) - continued											
WT2422924-009	BH213	Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	2.82	2.79	1.12%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00077	0.00074	0.00004	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	3.68	3.63	1.60%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	3.11	3.18	2.01%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.0925	0.0922	0.324%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	1.32	1.35	0.03	Diff <2x LOR	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	0.000042	0.000044	0.000001	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000193	0.000196	1.90%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	0.0095	0.0094	0.00006	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1596196)											
WT2422924-003	MW5-23	Aluminum, dissolved	7429-90-5	E423A	0.0030	mg/L	0.168	0.159	5.02%	20%	----
		Antimony, dissolved	7440-36-0	E423A	0.00010	mg/L	0.00016	0.00016	0.000003	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E423A	0.00010	mg/L	0.00122	0.00121	1.03%	20%	----
		Barium, dissolved	7440-39-3	E423A	0.00010	mg/L	0.0594	0.0588	1.03%	20%	----
		Beryllium, dissolved	7440-41-7	E423A	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E423A	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E423A	0.010	mg/L	0.021	0.021	0.0001	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E423A	0.0000050	mg/L	0.0000291	0.0000284	0.0000007	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E423A	0.050	mg/L	74.6	73.8	1.10%	20%	----
		Cesium, dissolved	7440-46-2	E423A	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E423A	0.00010	mg/L	0.00043	0.00044	0.000002	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E423A	0.00010	mg/L	0.00080	0.00079	0.000004	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E423A	0.00050	mg/L	0.00326	0.00325	0.00001	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E423A	0.010	mg/L	0.207	0.201	3.01%	20%	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1596196) - continued											
WT2422924-003	MW5-23	Lead, dissolved	7439-92-1	E423A	0.000050	mg/L	0.000912	0.000938	2.92%	20%	----
		Lithium, dissolved	7439-93-2	E423A	0.0010	mg/L	0.0018	0.0016	0.0002	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E423A	0.0050	mg/L	23.8	23.4	1.52%	20%	----
		Manganese, dissolved	7439-96-5	E423A	0.00010	mg/L	0.120	0.118	1.26%	20%	----
		Molybdenum, dissolved	7439-98-7	E423A	0.000050	mg/L	0.00183	0.00175	4.13%	20%	----
		Nickel, dissolved	7440-02-0	E423A	0.00050	mg/L	0.00147	0.00135	0.00012	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E423A	0.050	mg/L	0.243	0.243	0.00006	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E423A	0.050	mg/L	4.56	4.53	0.498%	20%	----
		Rubidium, dissolved	7440-17-7	E423A	0.00020	mg/L	0.00211	0.00213	0.933%	20%	----
		Selenium, dissolved	7782-49-2	E423A	0.000050	mg/L	0.000206	0.000214	0.000008	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E423A	0.10	mg/L	6.63	6.52	1.72%	20%	----
		Silver, dissolved	7440-22-4	E423A	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E423A	0.050	mg/L	6.72	6.66	0.839%	20%	----
		Strontium, dissolved	7440-24-6	E423A	0.00020	mg/L	0.134	0.132	1.98%	20%	----
		Sulfur, dissolved	7704-34-9	E423A	0.50	mg/L	2.90	2.78	0.12	Diff <2x LOR	----
		Tellurium, dissolved	13494-80-9	E423A	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E423A	0.000010	mg/L	0.000017	0.000015	0.000002	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E423A	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E423A	0.00010	mg/L	0.00013	0.00012	0.000009	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E423A	0.00030	mg/L	0.00561	0.00532	5.26%	20%	----
		Tungsten, dissolved	7440-33-7	E423A	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E423A	0.000010	mg/L	0.000317	0.000306	3.34%	20%	----
		Vanadium, dissolved	7440-62-2	E423A	0.00050	mg/L	0.00146	0.00142	0.00004	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E423A	0.0030	mg/L	0.0062	0.0062	0.00005	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E423A	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1590327)											
VA24B9712-004	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1589207)											
WT2422871-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1589207) - continued											
WT2422871-001	Anonymous	Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Hydrocarbons (QC Lot: 1589208)											
WT2422871-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients (QCLot: 1593452)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1593706)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 1590747)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 1590230)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1590235)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1591216)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1591216) - continued						
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 1596196)						
Aluminum, dissolved	7429-90-5	E423A	0.003	mg/L	<0.0030	----
Antimony, dissolved	7440-36-0	E423A	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E423A	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E423A	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E423A	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E423A	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E423A	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E423A	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E423A	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E423A	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E423A	0.0001	mg/L	<0.00010	----
Cobalt, dissolved	7440-48-4	E423A	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E423A	0.0005	mg/L	<0.00050	----
Iron, dissolved	7439-89-6	E423A	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E423A	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E423A	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E423A	0.005	mg/L	<0.0050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1596196) - continued						
Manganese, dissolved	7439-96-5	E423A	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E423A	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E423A	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E423A	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E423A	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E423A	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E423A	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E423A	0.1	mg/L	<0.10	----
Silver, dissolved	7440-22-4	E423A	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E423A	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E423A	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E423A	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E423A	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E423A	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E423A	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E423A	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E423A	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E423A	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E423A	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E423A	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E423A	0.003	mg/L	<0.0030	----
Zirconium, dissolved	7440-67-7	E423A	0.0002	mg/L	<0.00020	----
Speciated Metals (QCLot: 1590327)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1588968)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 1590129)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Volatile Organic Compounds (QCLot: 1589207)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1589207) - continued						
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1589208)						

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Hydrocarbons (QCLot: 1589208) - continued						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 1591130)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Hydrocarbons (QCLot: 1592326)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Hydrocarbons (QCLot: 1592366)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1591131)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1592325)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1592325) - continued						
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1592365)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Phthalate Esters (QCLot: 1594582)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	<0.60	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	<0.20	----
Semi-Volatile Organics (QCLot: 1594582)						
Biphenyl	92-52-4	E625A	0.2	µg/L	<0.20	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 1594582)						
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	<0.20	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	<0.20	----
Non-Chlorinated Phenolics (QCLot: 1594582)						
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	<1.0	----
Phenol	108-95-2	E625A	0.5	µg/L	<0.50	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1593452)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	98.8	90.0	110	----
Anions and Nutrients (QCLot: 1593706)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	99.8	90.0	110	----
Cyanides (QCLot: 1590747)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	87.7	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	102	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	96.8	80.0	120	----
Dissolved Metals (QCLot: 1591216)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	101	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	102	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	105	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.012 mg/L	96.3	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	95.3	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	99.5	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	101	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	95.6	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	94.1	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.002 mg/L	97.4	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.012 mg/L	104	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.012 mg/L	101	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.012 mg/L	101	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	99.4	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	98.3	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.012 mg/L	92.0	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	116	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.012 mg/L	106	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.012 mg/L	97.2	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	102	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	104	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	101	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	104	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 1591216) - continued									
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	101	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	103	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	87.7	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	110	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.012 mg/L	96.6	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	103	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	100	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	102	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	94.6	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	97.3	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.012 mg/L	98.2	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	95.8	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0 mg/L	101	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	104	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	98.9	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	91.2	80.0	120	----
Dissolved Metals (QCLot: 1596196)									
Aluminum, dissolved	7429-90-5	E423A	0.003	mg/L	0.1 mg/L	111	80.0	120	----
Antimony, dissolved	7440-36-0	E423A	0.0001	mg/L	0.05 mg/L	113	80.0	120	----
Arsenic, dissolved	7440-38-2	E423A	0.0001	mg/L	0.05 mg/L	115	80.0	120	----
Barium, dissolved	7440-39-3	E423A	0.0001	mg/L	0.012 mg/L	117	80.0	120	----
Beryllium, dissolved	7440-41-7	E423A	0.00002	mg/L	0.005 mg/L	116	80.0	120	----
Bismuth, dissolved	7440-69-9	E423A	0.00005	mg/L	0.05 mg/L	107	80.0	120	----
Boron, dissolved	7440-42-8	E423A	0.01	mg/L	0.05 mg/L	113	80.0	120	----
Cadmium, dissolved	7440-43-9	E423A	0.000005	mg/L	0.005 mg/L	112	80.0	120	----
Calcium, dissolved	7440-70-2	E423A	0.05	mg/L	2.5 mg/L	110	80.0	120	----
Cesium, dissolved	7440-46-2	E423A	0.00001	mg/L	0.002 mg/L	114	80.0	120	----
Chromium, dissolved	7440-47-3	E423A	0.0001	mg/L	0.012 mg/L	111	80.0	120	----
Cobalt, dissolved	7440-48-4	E423A	0.0001	mg/L	0.012 mg/L	113	80.0	120	----
Copper, dissolved	7440-50-8	E423A	0.0005	mg/L	0.012 mg/L	109	80.0	120	----
Iron, dissolved	7439-89-6	E423A	0.01	mg/L	0.05 mg/L	111	80.0	120	----
Lead, dissolved	7439-92-1	E423A	0.00005	mg/L	0.025 mg/L	110	80.0	120	----
Lithium, dissolved	7439-93-2	E423A	0.001	mg/L	0.012 mg/L	110	80.0	120	----
Magnesium, dissolved	7439-95-4	E423A	0.005	mg/L	2.5 mg/L	118	80.0	120	----
Manganese, dissolved	7439-96-5	E423A	0.0001	mg/L	0.012 mg/L	113	80.0	120	----
Molybdenum, dissolved	7439-98-7	E423A	0.00005	mg/L	0.012 mg/L	114	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Dissolved Metals (QCLot: 1596196) - continued									
Nickel, dissolved	7440-02-0	E423A	0.0005	mg/L	0.025 mg/L	109	80.0	120	----
Phosphorus, dissolved	7723-14-0	E423A	0.05	mg/L	0.5 mg/L	# 122	80.0	120	MES
Potassium, dissolved	7440-09-7	E423A	0.05	mg/L	2.5 mg/L	116	80.0	120	----
Rubidium, dissolved	7440-17-7	E423A	0.0002	mg/L	0.005 mg/L	115	80.0	120	----
Selenium, dissolved	7782-49-2	E423A	0.00005	mg/L	0.05 mg/L	108	80.0	120	----
Silicon, dissolved	7440-21-3	E423A	0.1	mg/L	0.5 mg/L	# 123	80.0	120	MES
Silver, dissolved	7440-22-4	E423A	0.00001	mg/L	0.005 mg/L	108	80.0	120	----
Sodium, dissolved	7440-23-5	E423A	0.05	mg/L	2.5 mg/L	113	80.0	120	----
Strontium, dissolved	7440-24-6	E423A	0.0002	mg/L	0.012 mg/L	115	80.0	120	----
Sulfur, dissolved	7704-34-9	E423A	0.5	mg/L	2.5 mg/L	# 129	80.0	120	MES
Tellurium, dissolved	13494-80-9	E423A	0.0002	mg/L	0.005 mg/L	104	80.0	120	----
Thallium, dissolved	7440-28-0	E423A	0.00001	mg/L	0.05 mg/L	110	80.0	120	----
Thorium, dissolved	7440-29-1	E423A	0.0001	mg/L	0.005 mg/L	106	80.0	120	----
Tin, dissolved	7440-31-5	E423A	0.0001	mg/L	0.025 mg/L	113	80.0	120	----
Titanium, dissolved	7440-32-6	E423A	0.0003	mg/L	0.012 mg/L	110	80.0	120	----
Tungsten, dissolved	7440-33-7	E423A	0.0001	mg/L	0.005 mg/L	116	80.0	120	----
Uranium, dissolved	7440-61-1	E423A	0.00001	mg/L	0 mg/L	113	80.0	120	----
Vanadium, dissolved	7440-62-2	E423A	0.0005	mg/L	0.025 mg/L	114	80.0	120	----
Zinc, dissolved	7440-66-6	E423A	0.003	mg/L	0.025 mg/L	105	80.0	120	----
Zirconium, dissolved	7440-67-7	E423A	0.0002	mg/L	0.005 mg/L	112	80.0	120	----
Speciated Metals (QCLot: 1590327)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	95.0	80.0	120	----
Aggregate Organics (QCLot: 1588968)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	93.8	70.0	130	----
Aggregate Organics (QCLot: 1590129)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	97.3	70.0	130	----
Volatile Organic Compounds (QCLot: 1589207)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	89.1	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	90.0	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	97.3	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	87.2	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	93.4	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	96.4	70.0	130	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1589207) - continued									
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	94.3	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	97.2	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	96.9	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	98.6	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	94.0	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	96.5	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	93.6	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	116	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	92.8	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	96.1	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	94.5	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	112	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	92.2	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	91.8	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	90.6	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	98.4	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	93.0	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	88.0	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	82.3	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	106	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	93.0	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	98.7	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	98.9	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	95.0	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	97.2	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	108	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	118	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	93.0	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	86.1	70.0	130	----
Hydrocarbons (QCLot: 1589208)									

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Hydrocarbons (QCLot: 1589208) - continued									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	105	80.0	120	----
Hydrocarbons (QCLot: 1591130)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4000 µg/L	83.1	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	8270 µg/L	96.3	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4470 µg/L	98.1	70.0	130	----
Hydrocarbons (QCLot: 1592326)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4000 µg/L	83.0	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	8270 µg/L	88.9	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4470 µg/L	98.4	70.0	130	----
Hydrocarbons (QCLot: 1592366)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4000 µg/L	99.1	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	8270 µg/L	102	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4470 µg/L	106	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1591131)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.526 µg/L	101	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.526 µg/L	101	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.526 µg/L	86.9	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.526 µg/L	116	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.526 µg/L	92.0	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.526 µg/L	109	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.526 µg/L	115	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.526 µg/L	102	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.526 µg/L	110	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.526 µg/L	109	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.526 µg/L	105	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.526 µg/L	105	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.526 µg/L	125	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.526 µg/L	103	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.526 µg/L	107	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.526 µg/L	97.7	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.526 µg/L	102	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.526 µg/L	106	50.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1592325)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.526 µg/L	98.4	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.526 µg/L	99.5	50.0	140	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1592325) - continued									
Anthracene	120-12-7	E641A	0.01	µg/L	0.526 µg/L	88.6	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.526 µg/L	115	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.526 µg/L	85.7	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.526 µg/L	101	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.526 µg/L	94.2	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.526 µg/L	95.3	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.526 µg/L	104	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.526 µg/L	83.3	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.526 µg/L	102	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.526 µg/L	102	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.526 µg/L	94.5	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.526 µg/L	100	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.526 µg/L	104	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.526 µg/L	95.8	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.526 µg/L	99.9	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.526 µg/L	102	50.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1592365)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.526 µg/L	93.2	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.526 µg/L	88.8	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.526 µg/L	82.7	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.526 µg/L	97.5	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.526 µg/L	88.4	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.526 µg/L	89.3	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.526 µg/L	95.4	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.526 µg/L	90.8	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.526 µg/L	98.2	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.526 µg/L	93.5	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.526 µg/L	92.6	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.526 µg/L	94.5	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.526 µg/L	92.0	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.526 µg/L	83.9	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.526 µg/L	86.1	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.526 µg/L	83.4	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.526 µg/L	96.3	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.526 µg/L	92.8	50.0	140	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Phthalate Esters (QCLot: 1594582)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	33.7 µg/L	122	50.0	140	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	33.7 µg/L	99.5	50.0	140	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	33.7 µg/L	101	50.0	140	----
Semi-Volatile Organics (QCLot: 1594582)									
Biphenyl	92-52-4	E625A	0.2	µg/L	8.42 µg/L	93.5	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	8.42 µg/L	84.6	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	8.42 µg/L	85.9	50.0	140	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	8.42 µg/L	88.8	30.0	140	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	8.42 µg/L	81.8	50.0	140	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	8.42 µg/L	94.6	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	8.42 µg/L	90.0	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	8.42 µg/L	78.4	50.0	130	----
Chlorinated Phenolics (QCLot: 1594582)									
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	25.3 µg/L	85.1	65.0	130	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	25.3 µg/L	84.4	65.0	130	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	25.3 µg/L	94.8	65.0	130	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	25.3 µg/L	90.2	65.0	130	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	25.3 µg/L	102	65.0	130	----
Non-Chlorinated Phenolics (QCLot: 1594582)									
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	25.3 µg/L	79.2	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	25.3 µg/L	72.2	40.0	140	----
Phenol	108-95-2	E625A	0.5	µg/L	25.3 µg/L	103	30.0	130	----

Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1593452)										
WT2422909-001	Anonymous	Chloride	16887-00-6	E235.Cl	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 1593706)										
WT2422630-001	Anonymous	Chloride	16887-00-6	E235.Cl	101 mg/L	100 mg/L	101	75.0	125	----
Cyanides (QCLot: 1590747)										
CG2411096-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	9.86 mg/L	12.5 mg/L	78.9	75.0	125	----
Dissolved Metals (QCLot: 1590230)										
HA2401870-002	Anonymous	Mercury, dissolved	7439-97-6	E509	0.000106 mg/L	0 mg/L	106	70.0	130	----
Dissolved Metals (QCLot: 1590235)										
TY2408498-002	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000992 mg/L	0 mg/L	99.2	70.0	130	----
Dissolved Metals (QCLot: 1591216)										
WT2422924-010	BH219	Aluminum, dissolved	7429-90-5	E421	0.102 mg/L	0.1 mg/L	102	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0510 mg/L	0.05 mg/L	102	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0557 mg/L	0.05 mg/L	111	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.00475 mg/L	0.005 mg/L	95.0	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0452 mg/L	0.05 mg/L	90.3	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.045 mg/L	0.05 mg/L	89.6	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00481 mg/L	0.005 mg/L	96.1	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00248 mg/L	0.002 mg/L	99.1	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0126 mg/L	0.012 mg/L	101	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0122 mg/L	0.012 mg/L	97.6	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0118 mg/L	0.012 mg/L	94.6	70.0	130	----
		Iron, dissolved	7439-89-6	E421	0.048 mg/L	0.05 mg/L	96.0	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0231 mg/L	0.025 mg/L	92.6	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0126 mg/L	0.012 mg/L	100	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.0126 mg/L	0.012 mg/L	100	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0123 mg/L	0.012 mg/L	98.2	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0240 mg/L	0.025 mg/L	96.1	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	0.529 mg/L	0.5 mg/L	106	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	2.74 mg/L	2.5 mg/L	110	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.00506 mg/L	0.005 mg/L	101	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0554 mg/L	0.05 mg/L	111	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	----	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00424 mg/L	0.005 mg/L	84.7	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 1591216) - continued										
WT2422924-010	BH219	Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	----	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.00500 mg/L	0.005 mg/L	100.0	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0497 mg/L	0.05 mg/L	99.4	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.00456 mg/L	0.005 mg/L	91.2	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0243 mg/L	0.025 mg/L	97.2	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0126 mg/L	0.012 mg/L	100	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.00474 mg/L	0.005 mg/L	94.8	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	----	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0262 mg/L	0.025 mg/L	105	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.0229 mg/L	0.025 mg/L	91.7	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.00459 mg/L	0.005 mg/L	91.7	70.0	130	----
Dissolved Metals (QCLot: 1596196)										
WT2422924-004	MW4-23	Aluminum, dissolved	7429-90-5	E423A	0.0983 mg/L	0.1 mg/L	98.3	70.0	130	----
		Antimony, dissolved	7440-36-0	E423A	0.0521 mg/L	0.05 mg/L	104	70.0	130	----
		Arsenic, dissolved	7440-38-2	E423A	0.0523 mg/L	0.05 mg/L	105	70.0	130	----
		Barium, dissolved	7440-39-3	E423A	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E423A	0.00518 mg/L	0.005 mg/L	104	70.0	130	----
		Bismuth, dissolved	7440-69-9	E423A	0.0466 mg/L	0.05 mg/L	93.3	70.0	130	----
		Boron, dissolved	7440-42-8	E423A	0.050 mg/L	0.05 mg/L	101	70.0	130	----
		Cadmium, dissolved	7440-43-9	E423A	0.00503 mg/L	0.005 mg/L	100	70.0	130	----
		Calcium, dissolved	7440-70-2	E423A	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E423A	0.00264 mg/L	0.002 mg/L	106	70.0	130	----
		Chromium, dissolved	7440-47-3	E423A	0.0125 mg/L	0.012 mg/L	99.8	70.0	130	----
		Cobalt, dissolved	7440-48-4	E423A	0.0122 mg/L	0.012 mg/L	98.0	70.0	130	----
		Copper, dissolved	7440-50-8	E423A	0.0116 mg/L	0.012 mg/L	92.4	70.0	130	----
		Iron, dissolved	7439-89-6	E423A	0.048 mg/L	0.05 mg/L	96.4	70.0	130	----
		Lead, dissolved	7439-92-1	E423A	0.0246 mg/L	0.025 mg/L	98.3	70.0	130	----
		Lithium, dissolved	7439-93-2	E423A	0.0122 mg/L	0.012 mg/L	97.9	70.0	130	----
		Magnesium, dissolved	7439-95-4	E423A	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E423A	ND mg/L	----	ND	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E423A	0.0131 mg/L	0.012 mg/L	105	70.0	130	----
		Nickel, dissolved	7440-02-0	E423A	0.0233 mg/L	0.025 mg/L	93.3	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E423A	0.529 mg/L	0.5 mg/L	106	70.0	130	----
		Potassium, dissolved	7440-09-7	E423A	ND mg/L	----	ND	70.0	130	----
		Rubidium, dissolved	7440-17-7	E423A	0.00509 mg/L	0.005 mg/L	102	70.0	130	----
		Selenium, dissolved	7782-49-2	E423A	0.0522 mg/L	0.05 mg/L	104	70.0	130	----
		Silicon, dissolved	7440-21-3	E423A	ND mg/L	----	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E423A	0.00485 mg/L	0.005 mg/L	97.0	70.0	130	----
		Sodium, dissolved	7440-23-5	E423A	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E423A	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E423A	ND mg/L	----	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E423A	0.00473 mg/L	0.005 mg/L	94.6	70.0	130	----
		Thallium, dissolved	7440-28-0	E423A	0.0496 mg/L	0.05 mg/L	99.1	70.0	130	----

Sub-Matrix: **Water**

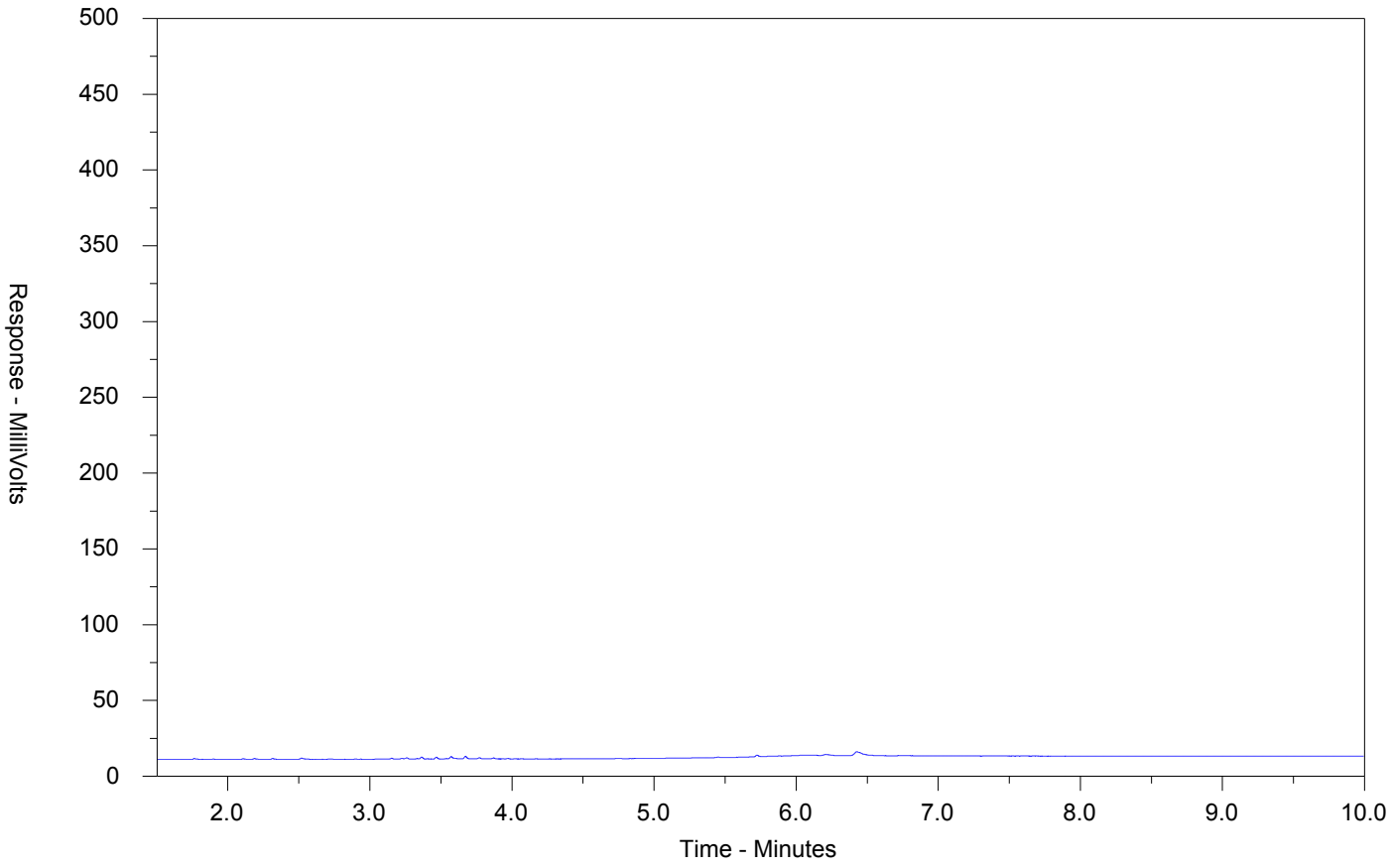
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 1596196) - continued										
WT2422924-004	MW4-23	Thorium, dissolved	7440-29-1	E423A	0.00491 mg/L	0.005 mg/L	98.2	70.0	130	----
		Tin, dissolved	7440-31-5	E423A	0.0262 mg/L	0.025 mg/L	105	70.0	130	----
		Titanium, dissolved	7440-32-6	E423A	0.0125 mg/L	0.012 mg/L	100	70.0	130	----
		Tungsten, dissolved	7440-33-7	E423A	0.00527 mg/L	0.005 mg/L	105	70.0	130	----
		Uranium, dissolved	7440-61-1	E423A	ND mg/L	----	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E423A	0.0256 mg/L	0.025 mg/L	102	70.0	130	----
		Zinc, dissolved	7440-66-6	E423A	0.0231 mg/L	0.025 mg/L	92.3	70.0	130	----
		Zirconium, dissolved	7440-67-7	E423A	0.00506 mg/L	0.005 mg/L	101	70.0	130	----
Speciated Metals (QCLot: 1590327)										
VA24B9712-004	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0394 mg/L	0.04 mg/L	98.4	70.0	130	----
Volatile Organic Compounds (QCLot: 1589207)										
WT2422871-001	Anonymous	Acetone	67-64-1	E611D	88 µg/L	100 µg/L	87.7	60.0	140	----
		Benzene	71-43-2	E611D	87.5 µg/L	100 µg/L	87.5	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	93.7 µg/L	100 µg/L	93.7	60.0	140	----
		Bromoform	75-25-2	E611D	84.0 µg/L	100 µg/L	84.0	60.0	140	----
		Bromomethane	74-83-9	E611D	89.3 µg/L	100 µg/L	89.3	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----
		Chlorobenzene	108-90-7	E611D	91.0 µg/L	100 µg/L	91.0	60.0	140	----
		Chloroform	67-66-3	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	88.6 µg/L	100 µg/L	88.6	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	91.3 µg/L	100 µg/L	91.3	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	92.2 µg/L	100 µg/L	92.2	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	95.4 µg/L	100 µg/L	95.4	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	92.2 µg/L	100 µg/L	92.2	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	118 µg/L	100 µg/L	118	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	113 µg/L	100 µg/L	113	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	88.8 µg/L	100 µg/L	88.8	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	118 µg/L	100 µg/L	118	60.0	140	----
		Dichloromethane	75-09-2	E611D	90.3 µg/L	100 µg/L	90.3	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	88.4 µg/L	100 µg/L	88.4	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	85.4 µg/L	100 µg/L	85.4	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	92.2 µg/L	100 µg/L	92.2	60.0	140	----
		Ethylbenzene	100-41-4	E611D	88.9 µg/L	100 µg/L	88.9	60.0	140	----
		Hexane, n-	110-54-3	E611D	90.6 µg/L	100 µg/L	90.6	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	83 µg/L	100 µg/L	83.1	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	100 µg/L	100 µg/L	99.7	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	96.4 µg/L	100 µg/L	96.4	60.0	140	----
		Styrene	100-42-5	E611D	97.1 µg/L	100 µg/L	97.1	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	94.5 µg/L	100 µg/L	94.5	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	98.4 µg/L	100 µg/L	98.4	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	94.3 µg/L	100 µg/L	94.3	60.0	140	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1589207) - continued										
WT2422871-001	Anonymous	Toluene	108-88-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	121 µg/L	100 µg/L	121	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Trichloroethylene	79-01-6	E611D	94.2 µg/L	100 µg/L	94.2	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Vinyl chloride	75-01-4	E611D	114 µg/L	100 µg/L	114	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	179 µg/L	200 µg/L	89.4	60.0	140	----
		Xylene, o-	95-47-6	E611D	89.1 µg/L	100 µg/L	89.1	60.0	140	----
Hydrocarbons (QCLot: 1589208)										
WT2422871-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	2070 µg/L	2000 µg/L	104	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2422924-001-E601.SG
Client Sample ID: MW2-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

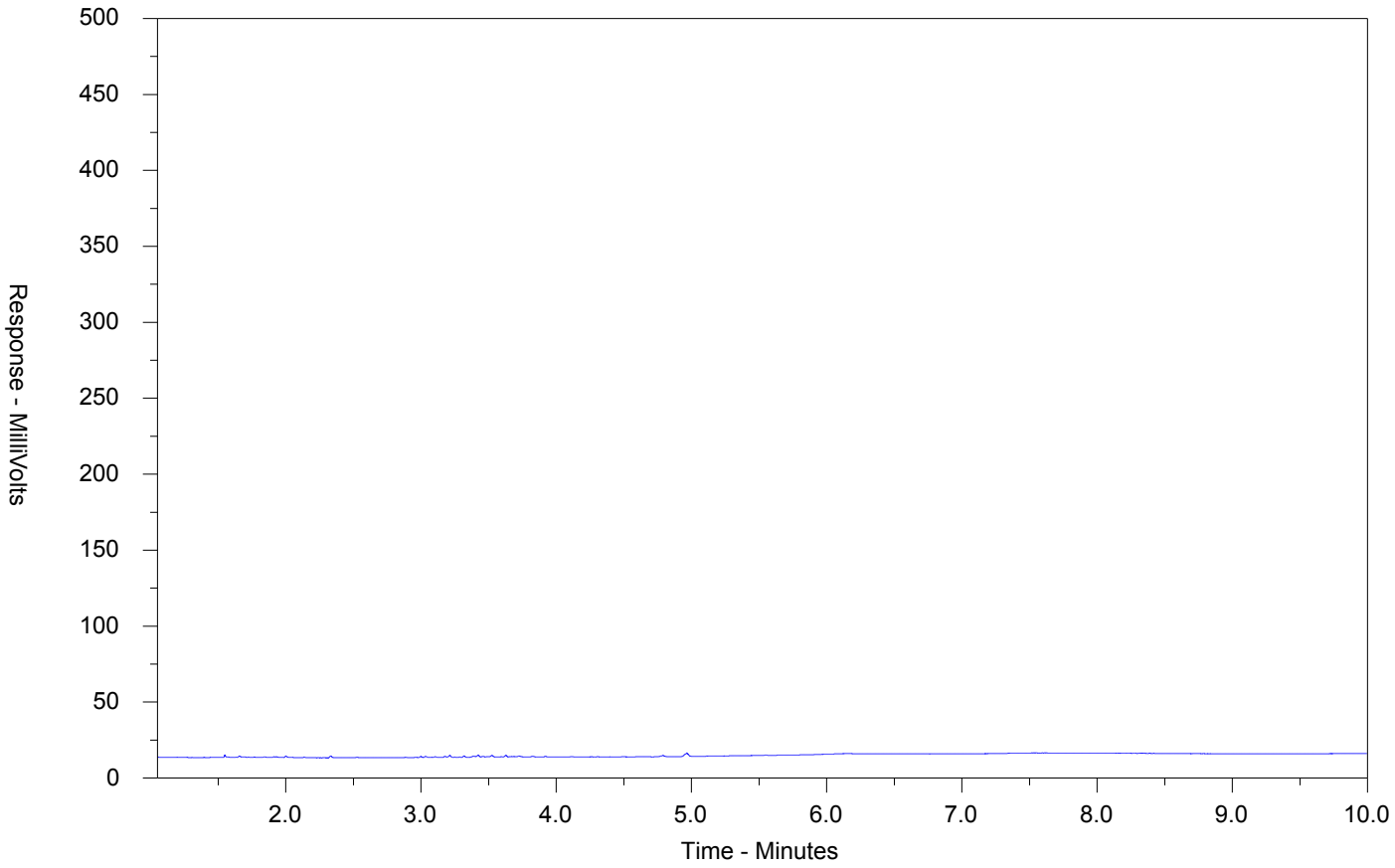
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2422924-002-E601.SG
Client Sample ID: DUP



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

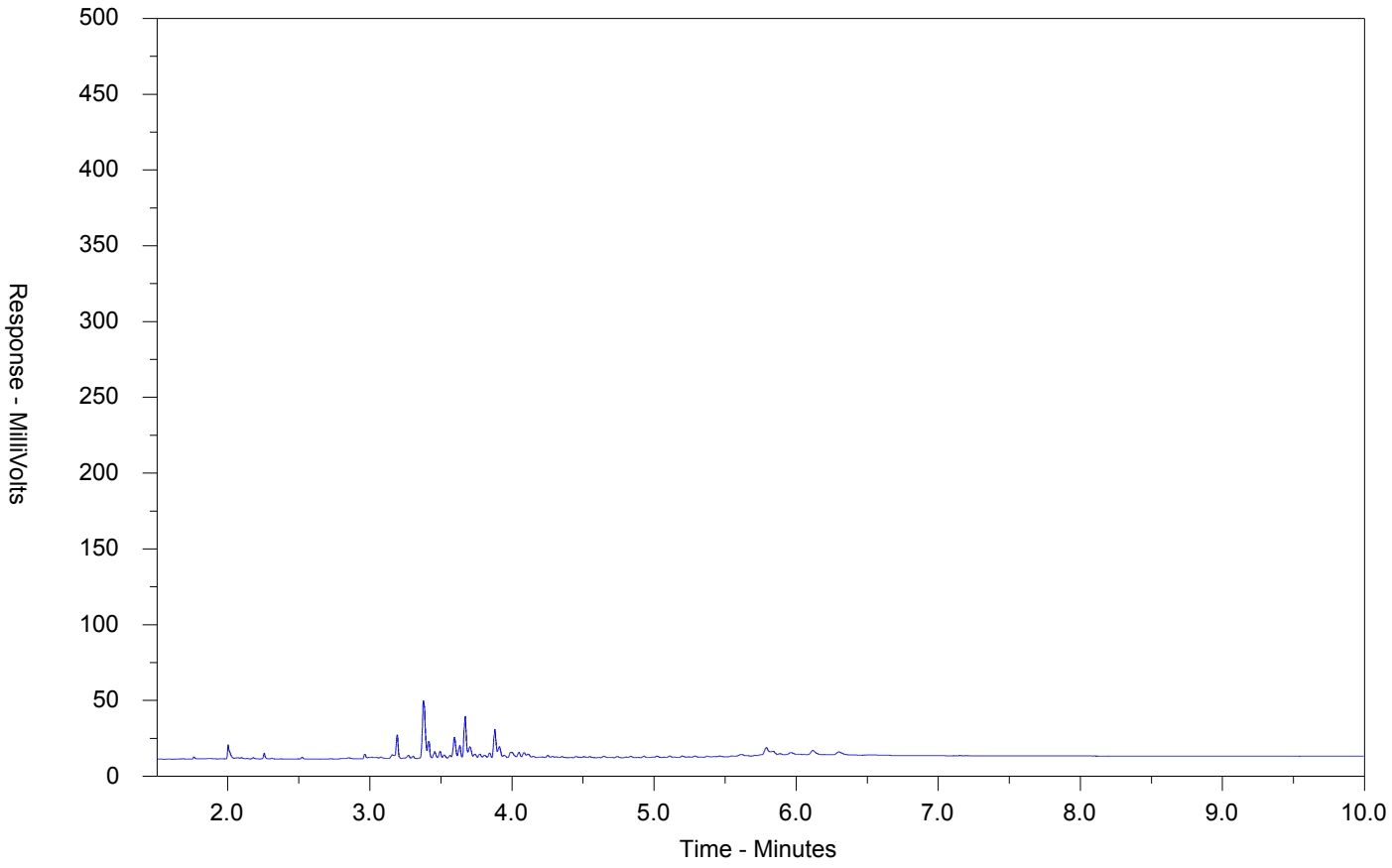
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2422924-003-E601.SG
Client Sample ID: MW5-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

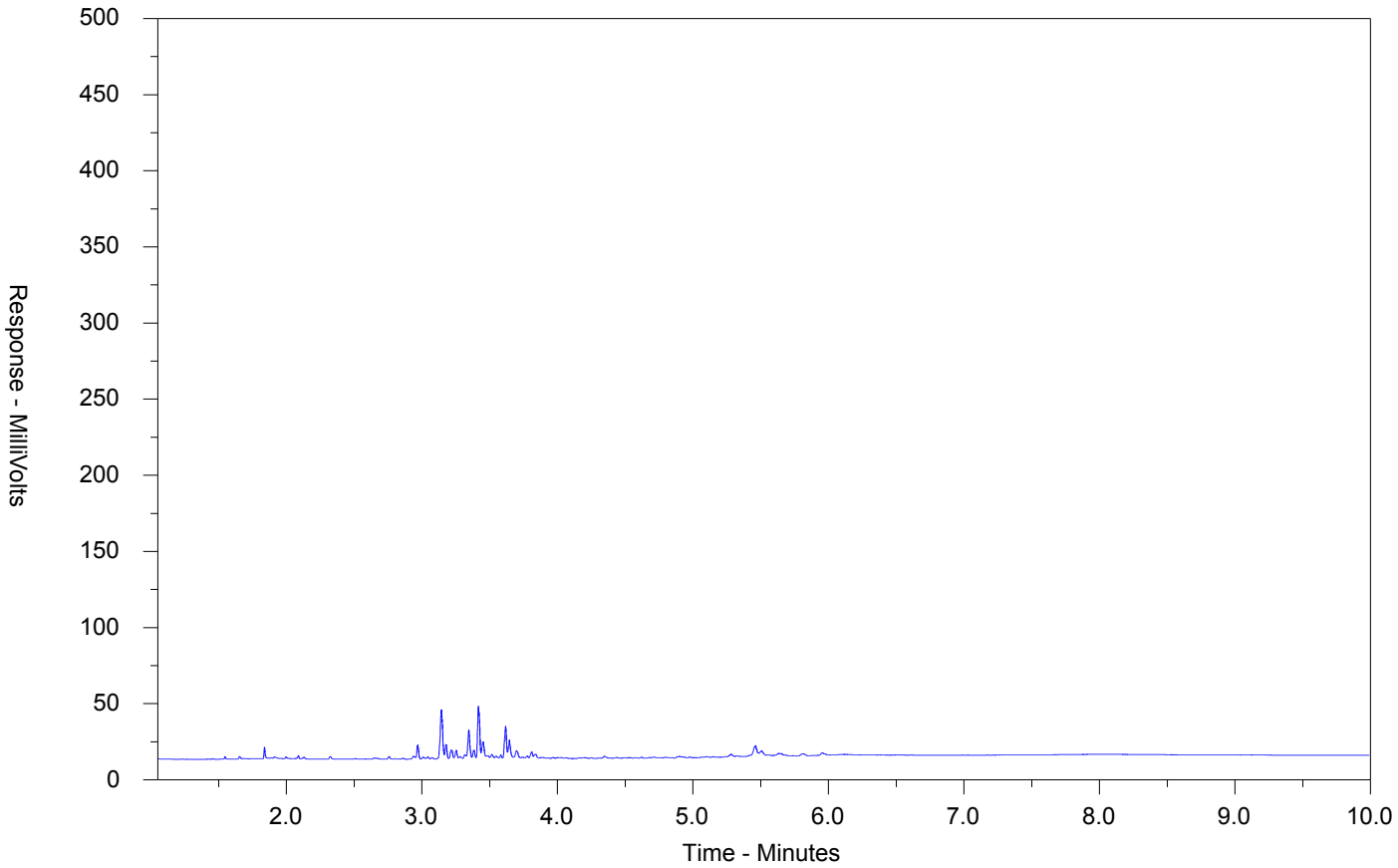
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2422924-004-E601.SG
Client Sample ID: MW4-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

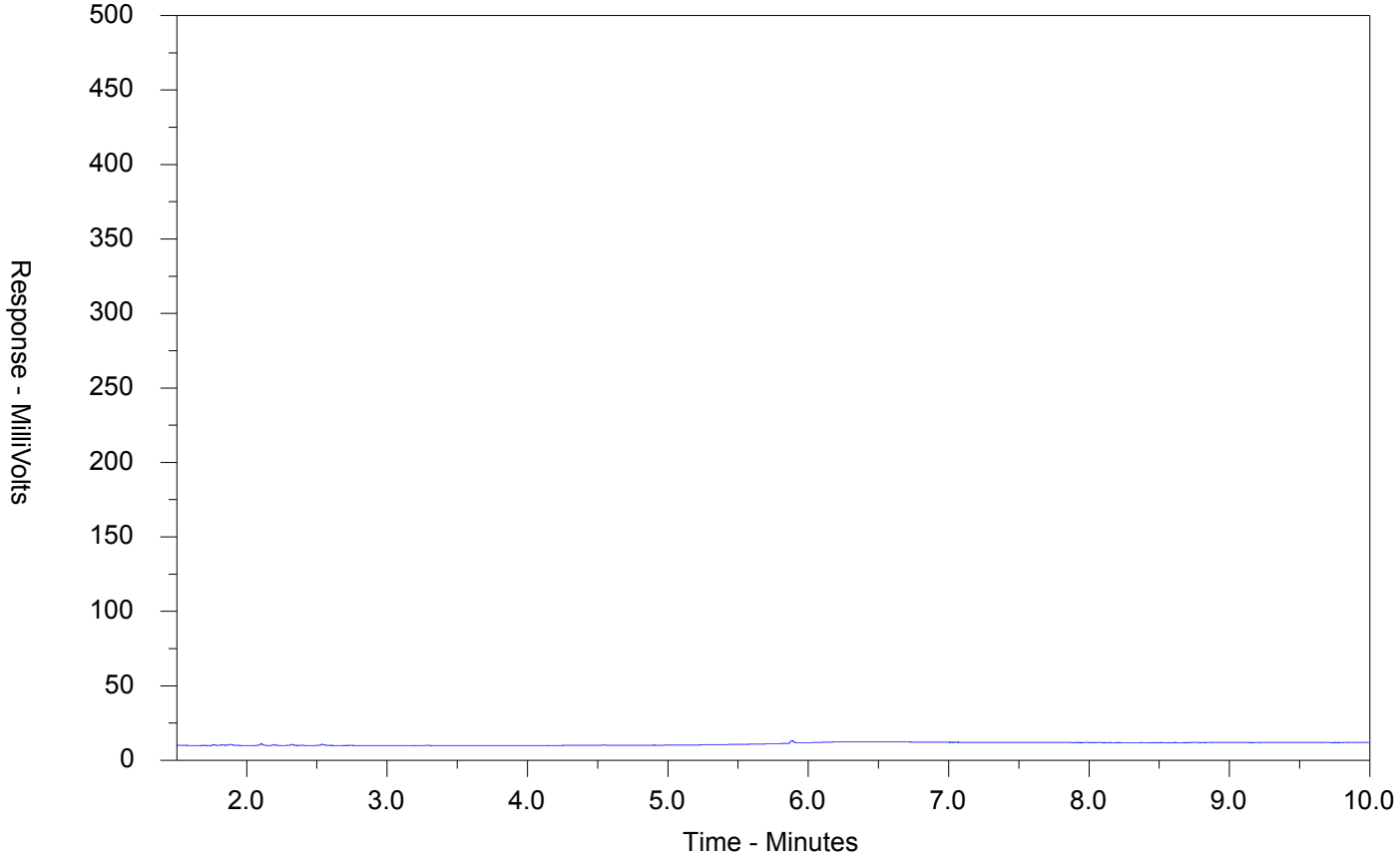
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2422924-005-E601.SG
Client Sample ID: AGW1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

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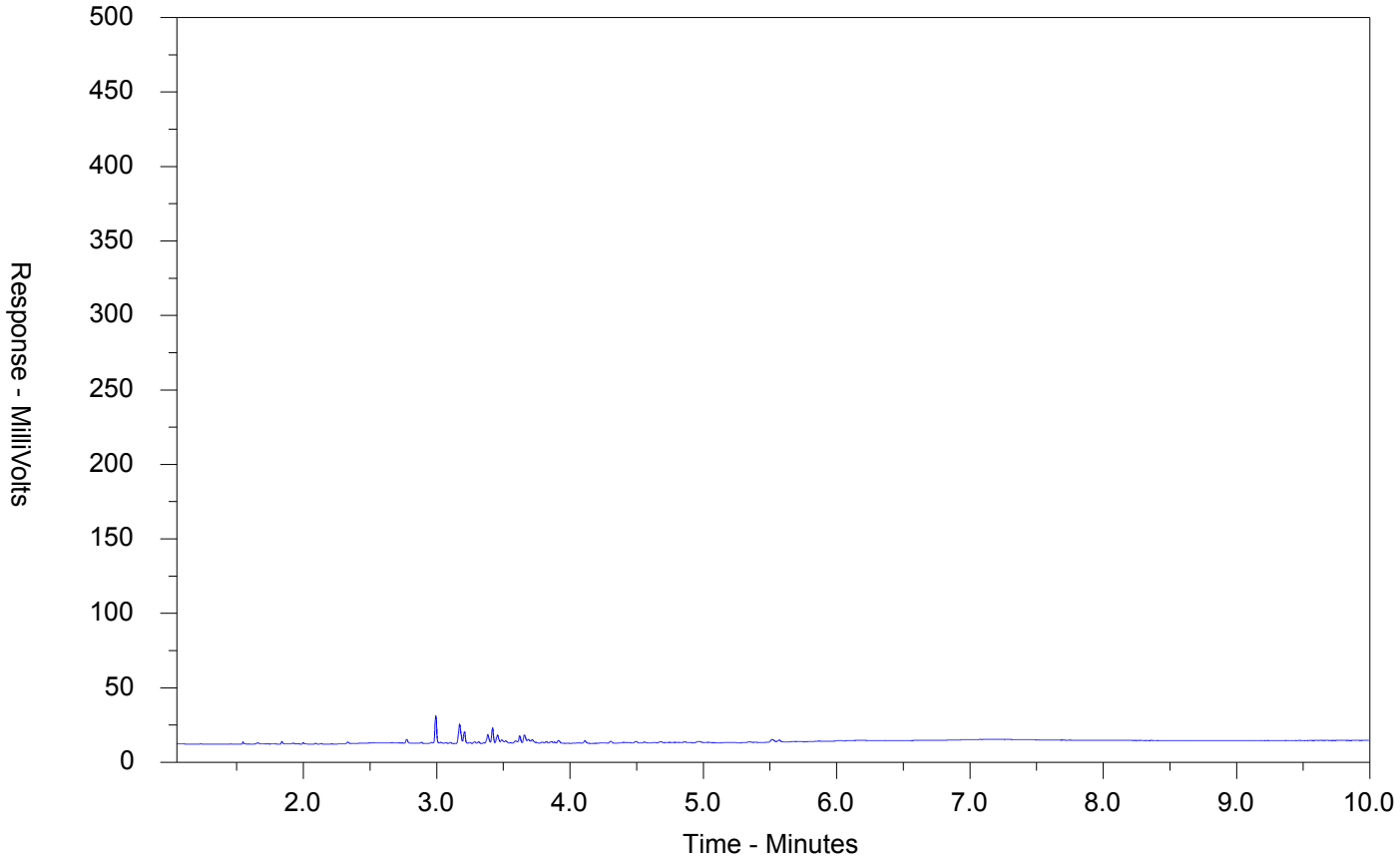
Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2422924-006-E601.SG
Client Sample ID: MW1-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

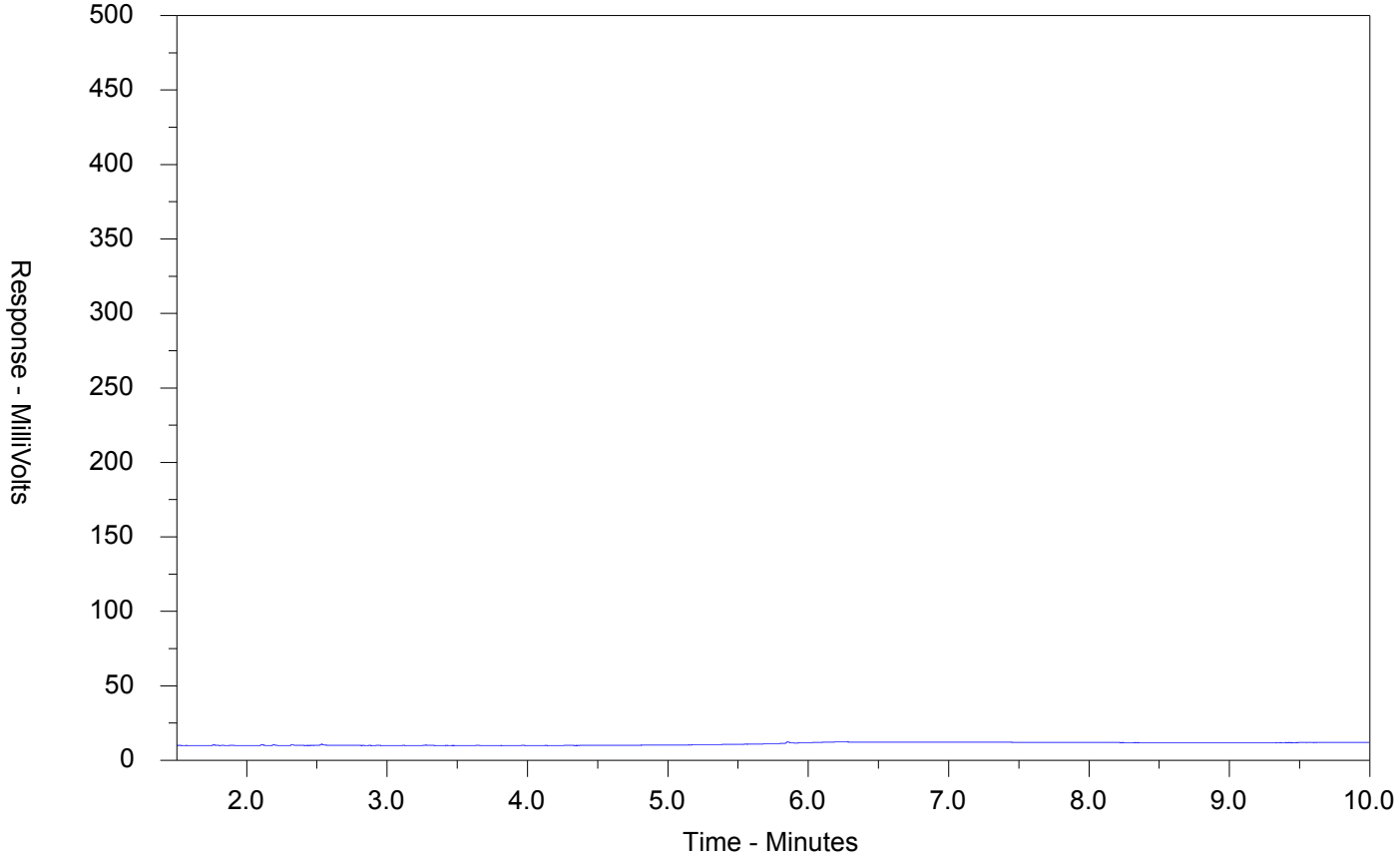
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2422924-007-E601.SG
Client Sample ID: APW1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

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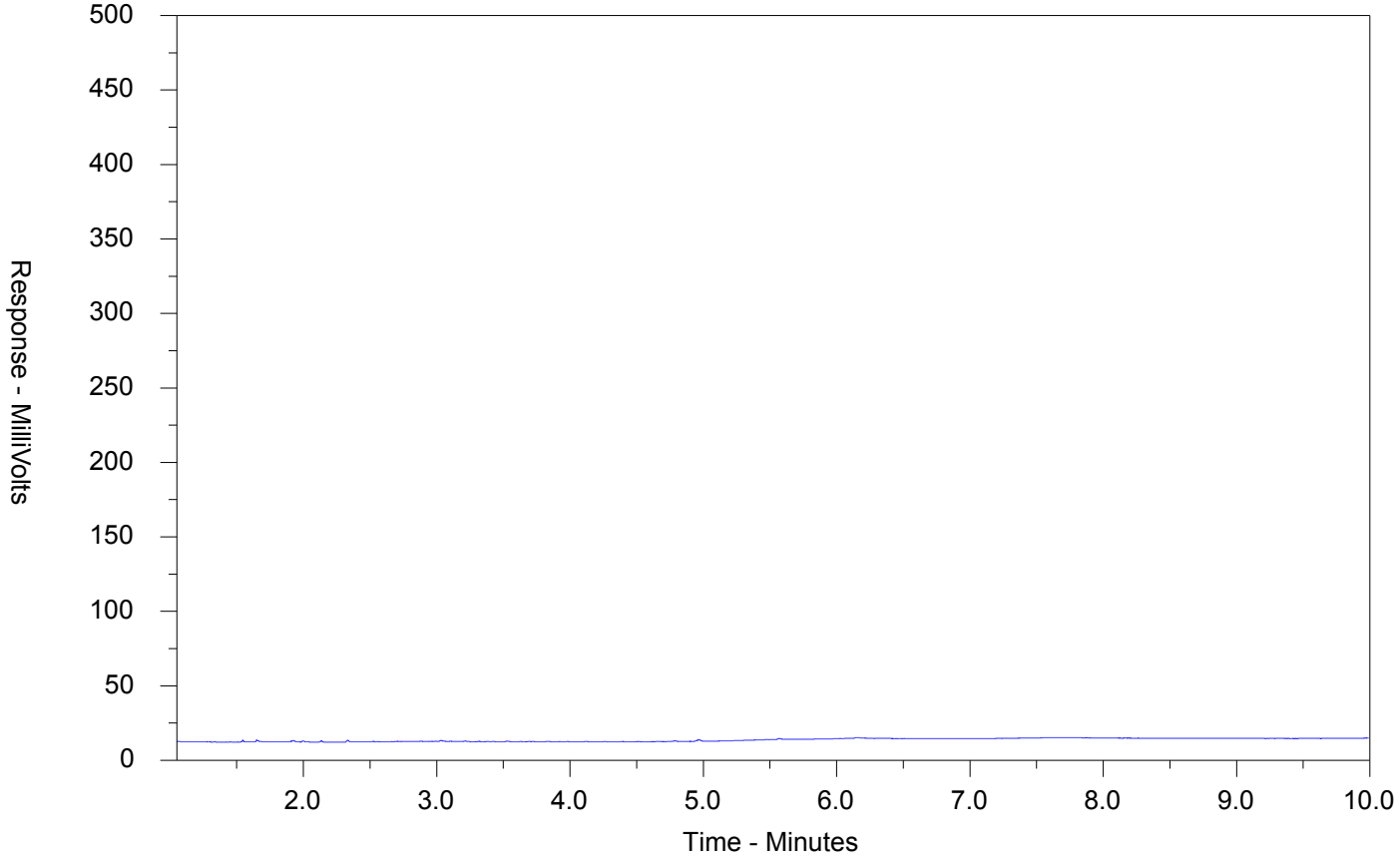
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2422924-008-E601.SG
Client Sample ID: MW3-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

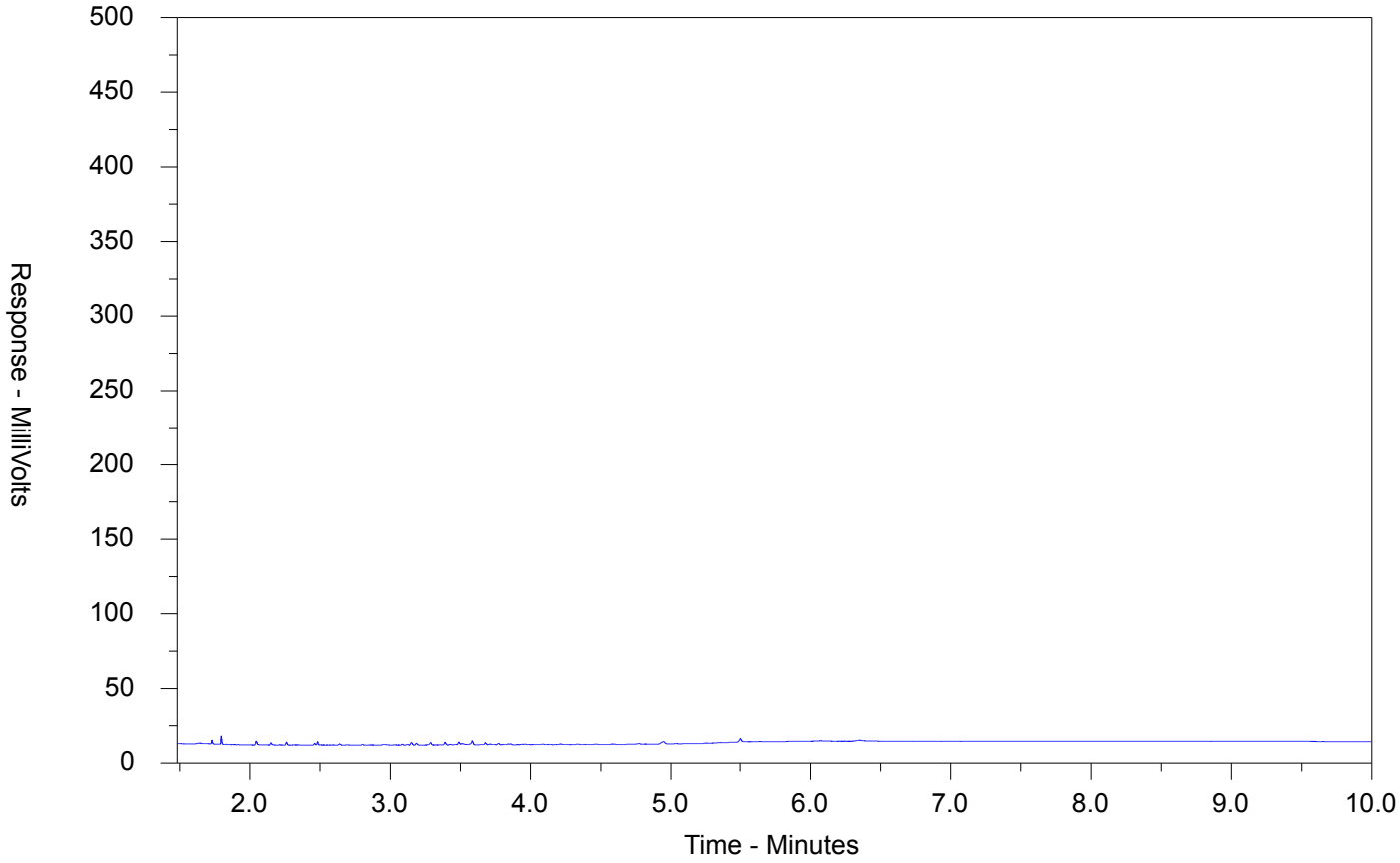
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2422924-009-E601.SG
Client Sample ID: BH213



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

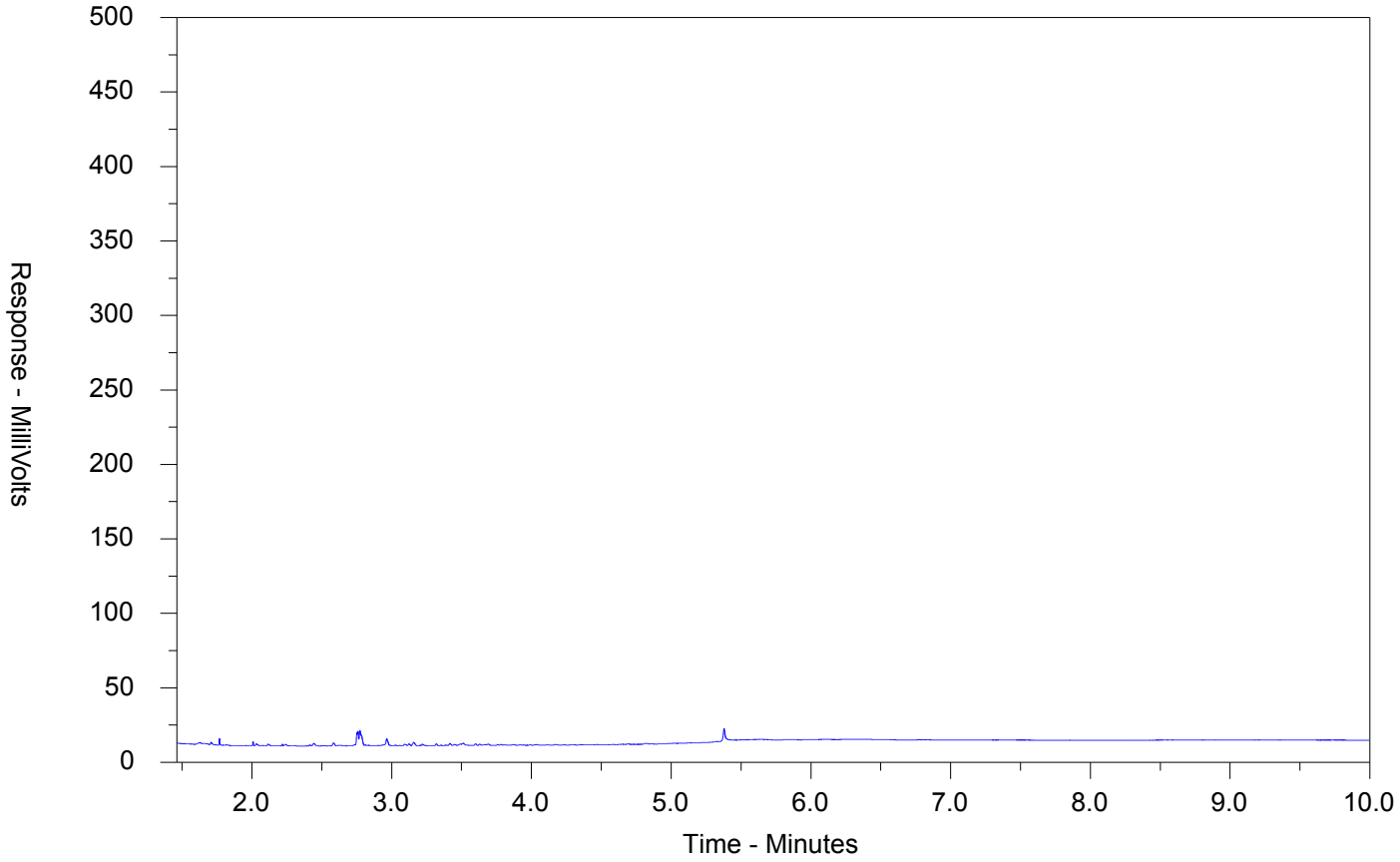
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2422924-010-E601.SG
Client Sample ID: BH219



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

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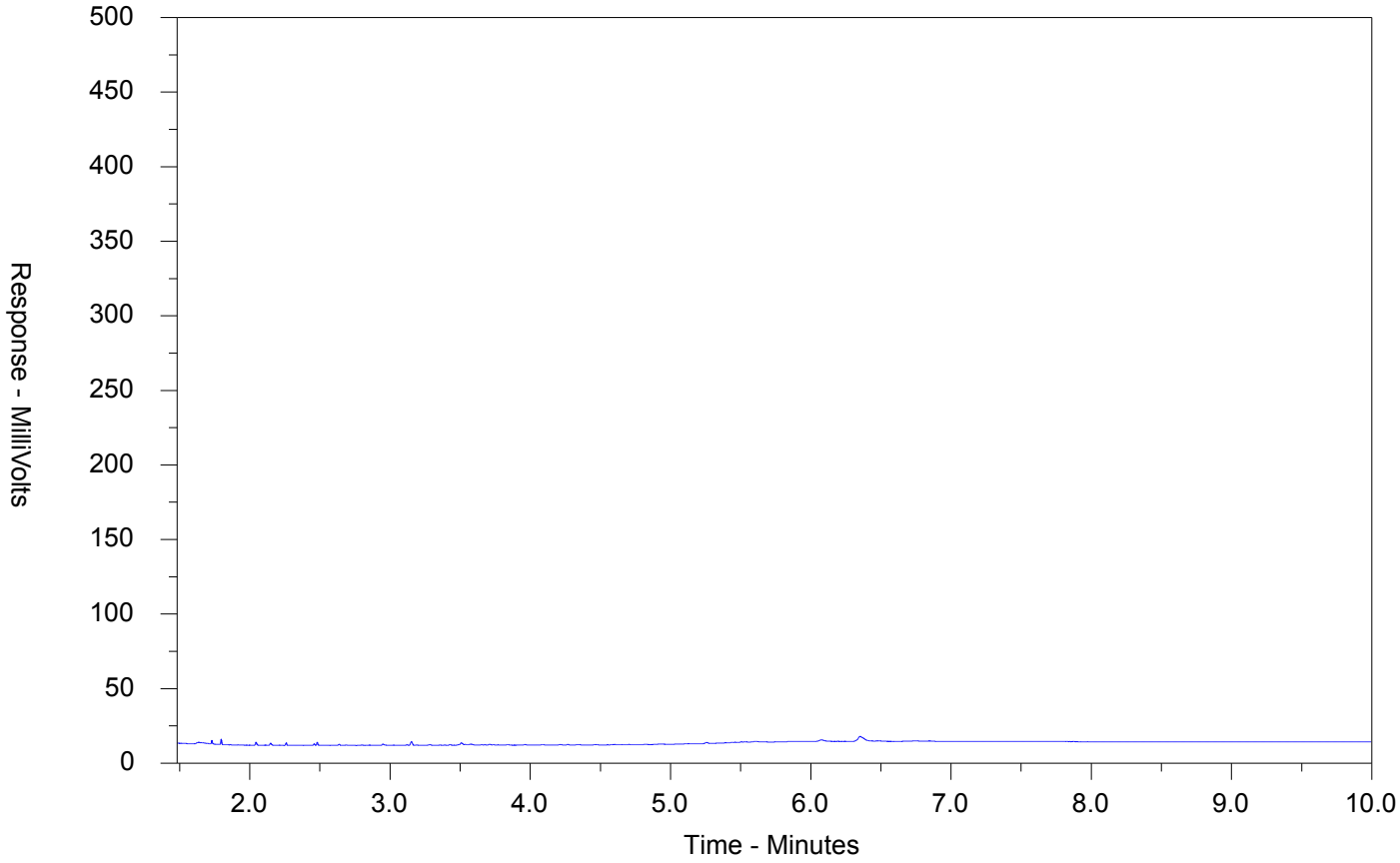
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2422924-011-E601.SG
Client Sample ID: FB



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

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Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Page 1 of 1

Environmental Division Waterloo
Work Order Reference
WT2422924

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: pascal.renella@ghd.com
Email 2: See SSOW/PO
Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accountspayableCDN@ghd.com
Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minim
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minir
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minir
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minir
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge fees may apply to rush requests on weekends, statutory holidays routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to t

Project Information

ALS Account # / Quote #:	WT2022GHDL1000018
Job #:	11210029
PO / AFE:	735-009459
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#:
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2422924 CH

ALS Contact: Rick H

Sampler:

Analysis Re

Indicate Filtered (F), Preserved (P) or Filtered a

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	VOC, F1-F4	Dissolved Metals (Field Filter)	Dissolved Mercury (Field Filter)	Dissolved CrVI (Field Filter)	Total Cyanide	Total Oil and Grease	Chloride	SVOCs (including PAHs)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIF	SUSPECTED HAZARD (see no
	MW2-20	09-Aug-24	9:00	Water		R	R	R	R	R	R	R	R			
	DUP		9:00													
	MW5-23		9:30													
	MW4-23		9:50													
	AGW1		10:30													
	MW1-20		11:00													
	APW1		11:20													
	MW3-20		12:00													
	BH213		12:45													
	BH219		13:15													
	FB		13:30													

No label on SVOC bottle *

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				8.1	7.2	4.9	

SHIPMENT RELEASE (client use)

Released: [redacted] Date: Aug 9/24 Time: 14:40

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by: [redacted] Date: Aug 9, 2024 Time: 15:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form

OGC-741, 740

LJ, GL-536 MM-961 SC-880 CN-173 OR-552,553 VN-197

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2426599**	Page	: 1 of 19
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 10-Sep-2024 14:20
PO	: 735-009459	Date Analysis Commenced	: 11-Sep-2024
C-O-C number	: ----	Issue Date	: 18-Sep-2024 19:31
Sampler	: Keegan Cleghorn		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Brooke Miller	Laboratory Analyst	Inorganics, Edmonton, Alberta
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Inorganics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Metals, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Inorganics, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Sample Comments

Sample	Client Id	*Comment*
WT2426599-003	MW4-23	RRR: Detection limits raised due to suspected bias high results at or near the detection limit.

Qualifiers

Qualifier	*Description*
BODL	*Limit of Reporting for BOD was increased to account for the largest volume of sample tested.*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*
RRR	*Refer to report comments for issues regarding this analysis.*
SFPR	*Suspected False Positive Result, based on detection in Lab Blanks and/or Field Blanks, or other known issues.*

Analytical Results

WT2426599-001

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW3

Client sampling date / time: 10-Sep-2024 09:45

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Hardness (as CaCO3), dissolved	----	490		0.50	mg/L	EC100/WT	-	13-Sep-2024	-
Solids, total dissolved [TDS]	----	600	DLDS,	20	mg/L	E162/WT	-	13-Sep-2024	1647189
Alkalinity, total (as CaCO3)	----	1230		10.0	mg/L	E290/WT	12-Sep-2024	14-Sep-2024	1648136
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	0.0081		0.0050	mg/L	E298/WT	12-Sep-2024	16-Sep-2024	1648601
Chloride	16887-00-6	9.57		0.50	mg/L	E235.Cl/WT	12-Sep-2024	13-Sep-2024	1648130
Kjeldahl nitrogen, total [TKN]	----	0.434		0.050	mg/L	E318/WT	16-Sep-2024	16-Sep-2024	1648603
Nitrate (as N)	14797-55-8	0.864		0.020	mg/L	E235.NO3/WT	12-Sep-2024	13-Sep-2024	1648134
Nitrite (as N)	14797-65-0	<0.010		0.010	mg/L	E235.NO2/WT	12-Sep-2024	13-Sep-2024	1648135
Phosphorus, total	7723-14-0	0.690		0.0200	mg/L	E372-U/WT	13-Sep-2024	16-Sep-2024	1648604
Sulfate (as SO4)	14808-79-8	19.9		0.30	mg/L	E235.SO4/WT	12-Sep-2024	13-Sep-2024	1648131
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	12-Sep-2024	12-Sep-2024	1646784
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	2.97		0.50	mg/L	E358-L/WT	11-Sep-2024	12-Sep-2024	1645503
Dissolved Metals									
Aluminum, dissolved	7429-90-5	0.0030		0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Antimony, dissolved	7440-36-0	<0.00010		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Arsenic, dissolved	7440-38-2	0.00027		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Barium, dissolved	7440-39-3	0.0530		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Beryllium, dissolved	7440-41-7	<0.000020		0.000020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Bismuth, dissolved	7440-69-9	<0.000050		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Boron, dissolved	7440-42-8	0.012		0.010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cadmium, dissolved	7440-43-9	0.0000051		0.0000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Calcium, dissolved	7440-70-2	112		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cesium, dissolved	7440-46-2	<0.000010		0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Chromium, dissolved	7440-47-3	<0.00050		0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cobalt, dissolved	7440-48-4	0.00011		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Copper, dissolved	7440-50-8	0.00078		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Iron, dissolved	7439-89-6	<0.010		0.010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Lead, dissolved	7439-92-1	<0.000050		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Lithium, dissolved	7439-93-2	0.0037		0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Magnesium, dissolved	7439-95-4	51.1		0.0050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Manganese, dissolved	7439-96-5	0.0102		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	13-Sep-2024	16-Sep-2024	1646661
Molybdenum, dissolved	7439-98-7	0.000208		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Nickel, dissolved	7440-02-0	<0.00050		0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Phosphorus, dissolved	7723-14-0	<0.050		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Potassium, dissolved	7440-09-7	1.16		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Rubidium, dissolved	7440-17-7	0.00067		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Selenium, dissolved	7782-49-2	0.000084		0.000050	mg/L	E421/WT	12-Sep-2024	13-Sep-2024	1648489
Silicon, dissolved	7440-21-3	8.04		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Silver, dissolved	7440-22-4	<0.000010		0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Sodium, dissolved	7440-23-5	5.51		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Strontium, dissolved	7440-24-6	0.160		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489

Analytical Results

WT2426599-001

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW3

Client sampling date / time: 10-Sep-2024 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	7.72	0.50	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Thallium, dissolved	7440-28-0	0.000011	0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Uranium, dissolved	7440-61-1	0.00107	0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Zinc, dissolved	7440-66-6	0.0015	0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-Sep-2024	1646661
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2024	1648489
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2024	1647062
Aggregate Organics								
Biochemical oxygen demand [BOD]	----	<3.0 BODL	3.0	mg/L	E550/WT	-	12-Sep-2024	1647200
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	11-Sep-2024	12-Sep-2024	1646294
Phenols, total (4AAP)	----	<0.0010	0.0010	mg/L	E562/EO	12-Sep-2024	12-Sep-2024	1647289
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloromethane	75-09-2	<2.3 SFPR	2.3	µg/L	E611D/WT	12-Sep-2024	13-Sep-2024	1647675
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675

Analytical Results

WT2426599-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3
Client sampling date / time: 10-Sep-2024 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2024	12-Sep-2024	1647676
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	12-Sep-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	12-Sep-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	16-Sep-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	13-Sep-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.5	1.0	%	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
Dichlorotoluene, 3,4-	95-75-0	97.1	1.0	%	E581.F1-L/WT	12-Sep-2024	12-Sep-2024	1647676
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	90.3	1.0	%	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Difluorobenzene, 1,4-	540-36-3	102	1.0	%	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(b+j)fluoranthene	n/a	0.011	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282

Analytical Results

WT2426599-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3
Client sampling date / time: 10-Sep-2024 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 1-	90-12-0	0.013	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 1+2-	----	0.028	0.015	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 2-	91-57-6	0.015	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Pyrene	129-00-0	0.022	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	134	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Naphthalene-d8	1146-65-2	99.6	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phenanthrene-d10	1517-22-2	125	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	77.1	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Nitrobenzene-d5	4165-60-0	88.1	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Terphenyl-d14, p-	1718-51-0	88.5	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	89.5	0.50	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2426599-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 10-Sep-2024 09:45

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Hardness (as CaCO3), dissolved	----	488		0.50	mg/L	EC100/WT	-	13-Sep-2024	-
Solids, total dissolved [TDS]	----	483	DLDS,	20	mg/L	E162/WT	-	13-Sep-2024	1649867
Alkalinity, total (as CaCO3)	----	1170		10.0	mg/L	E290/WT	12-Sep-2024	14-Sep-2024	1648136
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	<0.0050		0.0050	mg/L	E298/WT	12-Sep-2024	16-Sep-2024	1648601
Chloride	16887-00-6	9.56		0.50	mg/L	E235.Cl/WT	12-Sep-2024	13-Sep-2024	1648130
Kjeldahl nitrogen, total [TKN]	----	0.394		0.050	mg/L	E318/WT	16-Sep-2024	16-Sep-2024	1648603
Nitrate (as N)	14797-55-8	0.875		0.020	mg/L	E235.NO3/WT	12-Sep-2024	13-Sep-2024	1648134
Nitrite (as N)	14797-65-0	<0.010		0.010	mg/L	E235.NO2/WT	12-Sep-2024	13-Sep-2024	1648135
Phosphorus, total	7723-14-0	0.245		0.0200	mg/L	E372-U/WT	13-Sep-2024	16-Sep-2024	1648604
Sulfate (as SO4)	14808-79-8	19.7		0.30	mg/L	E235.SO4/WT	12-Sep-2024	13-Sep-2024	1648131
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	12-Sep-2024	12-Sep-2024	1646784
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	1.87		0.50	mg/L	E358-L/WT	11-Sep-2024	12-Sep-2024	1645503
Dissolved Metals									
Aluminum, dissolved	7429-90-5	0.0069		0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Antimony, dissolved	7440-36-0	<0.00010		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Arsenic, dissolved	7440-38-2	0.00026		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Barium, dissolved	7440-39-3	0.0525		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Beryllium, dissolved	7440-41-7	<0.000020		0.000020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Bismuth, dissolved	7440-69-9	<0.000050		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Boron, dissolved	7440-42-8	0.012		0.010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cadmium, dissolved	7440-43-9	<0.0000050		0.0000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Calcium, dissolved	7440-70-2	112		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cesium, dissolved	7440-46-2	<0.000010		0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Chromium, dissolved	7440-47-3	<0.00050		0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cobalt, dissolved	7440-48-4	0.00011		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Copper, dissolved	7440-50-8	0.00123		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Iron, dissolved	7439-89-6	<0.010		0.010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Lead, dissolved	7439-92-1	<0.000050		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Lithium, dissolved	7439-93-2	0.0038		0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Magnesium, dissolved	7439-95-4	50.5		0.0050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Manganese, dissolved	7439-96-5	0.0108		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	13-Sep-2024	16-Sep-2024	1646661
Molybdenum, dissolved	7439-98-7	0.000229		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Nickel, dissolved	7440-02-0	0.00051		0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Phosphorus, dissolved	7723-14-0	<0.050		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Potassium, dissolved	7440-09-7	1.17		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Rubidium, dissolved	7440-17-7	0.00073		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Selenium, dissolved	7782-49-2	0.000090		0.000050	mg/L	E421/WT	12-Sep-2024	13-Sep-2024	1648489
Silicon, dissolved	7440-21-3	7.91		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Silver, dissolved	7440-22-4	<0.000010		0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Sodium, dissolved	7440-23-5	5.40		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Strontium, dissolved	7440-24-6	0.157		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489

Analytical Results

WT2426599-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 10-Sep-2024 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	7.63	0.50	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Uranium, dissolved	7440-61-1	0.00115	0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Zinc, dissolved	7440-66-6	0.0020	0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-Sep-2024	1646661
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2024	1648489
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2024	1647062
Aggregate Organics								
Biochemical oxygen demand [BOD]	----	<3.0 BODL	3.0	mg/L	E550/WT	-	12-Sep-2024	1647200
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	11-Sep-2024	12-Sep-2024	1646294
Phenols, total (4AAP)	----	<0.0010	0.0010	mg/L	E562/EO	12-Sep-2024	12-Sep-2024	1647289
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloromethane	75-09-2	<2.2 SFPR	2.2	µg/L	E611D/WT	12-Sep-2024	13-Sep-2024	1647675
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675

Analytical Results

WT2426599-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 10-Sep-2024 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2024	12-Sep-2024	1647676
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	12-Sep-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	12-Sep-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	16-Sep-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	13-Sep-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.0	1.0	%	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
Dichlorotoluene, 3,4-	95-75-0	110	1.0	%	E581.F1-L/WT	12-Sep-2024	12-Sep-2024	1647676
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.2	1.0	%	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Difluorobenzene, 1,4-	540-36-3	101	1.0	%	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282

Analytical Results

WT2426599-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 10-Sep-2024 09:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	130	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Naphthalene-d8	1146-65-2	92.4	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phenanthrene-d10	1517-22-2	117	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	81.3	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Nitrobenzene-d5	4165-60-0	90.9	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Terphenyl-d14, p-	1718-51-0	90.3	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	91.8	0.50	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2426599-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 10-Sep-2024 01:15

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Hardness (as CaCO3), dissolved	----	373		0.50	mg/L	EC100/WT	-	13-Sep-2024	-
Solids, total dissolved [TDS]	----	430	DLDS,	20	mg/L	E162/WT	-	13-Sep-2024	1647189
Alkalinity, total (as CaCO3)	----	4700		50.0	mg/L	E290/WT	12-Sep-2024	14-Sep-2024	1648136
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	0.391		0.0050	mg/L	E298/WT	12-Sep-2024	16-Sep-2024	1648601
Chloride	16887-00-6	10.7		0.50	mg/L	E235.Cl/WT	12-Sep-2024	13-Sep-2024	1648130
Kjeldahl nitrogen, total [TKN]	----	4.77		0.050	mg/L	E318/WT	16-Sep-2024	16-Sep-2024	1648603
Nitrate (as N)	14797-55-8	1.55		0.020	mg/L	E235.NO3/WT	12-Sep-2024	13-Sep-2024	1648134
Nitrite (as N)	14797-65-0	0.112		0.010	mg/L	E235.NO2/WT	12-Sep-2024	13-Sep-2024	1648135
Phosphorus, total	7723-14-0	7.68		0.200	mg/L	E372-U/WT	13-Sep-2024	16-Sep-2024	1648604
Sulfate (as SO4)	14808-79-8	16.2		0.30	mg/L	E235.SO4/WT	12-Sep-2024	13-Sep-2024	1648131
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	12-Sep-2024	12-Sep-2024	1646784
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	1.85		0.50	mg/L	E358-L/WT	11-Sep-2024	12-Sep-2024	1645503
Dissolved Metals									
Aluminum, dissolved	7429-90-5	0.0052		0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Antimony, dissolved	7440-36-0	<0.00010		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Arsenic, dissolved	7440-38-2	0.00102		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Barium, dissolved	7440-39-3	0.0863		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Beryllium, dissolved	7440-41-7	<0.000020		0.000020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Bismuth, dissolved	7440-69-9	<0.000050		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Boron, dissolved	7440-42-8	0.013		0.010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cadmium, dissolved	7440-43-9	<0.0000050		0.0000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Calcium, dissolved	7440-70-2	84.6		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cesium, dissolved	7440-46-2	<0.000010		0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Chromium, dissolved	7440-47-3	<0.00050		0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cobalt, dissolved	7440-48-4	0.00011		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Copper, dissolved	7440-50-8	0.00075		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Iron, dissolved	7439-89-6	<0.010		0.010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Lead, dissolved	7439-92-1	<0.000050		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Lithium, dissolved	7439-93-2	<0.0010		0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Magnesium, dissolved	7439-95-4	39.3		0.0050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Manganese, dissolved	7439-96-5	0.0105		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	13-Sep-2024	16-Sep-2024	1646661
Molybdenum, dissolved	7439-98-7	0.000773		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Nickel, dissolved	7440-02-0	<0.00050		0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Phosphorus, dissolved	7723-14-0	<0.050		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Potassium, dissolved	7440-09-7	3.14		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Rubidium, dissolved	7440-17-7	0.00047		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Selenium, dissolved	7782-49-2	0.000336		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Silicon, dissolved	7440-21-3	7.53		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Silver, dissolved	7440-22-4	<0.000010		0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Sodium, dissolved	7440-23-5	4.86		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Strontium, dissolved	7440-24-6	0.133		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489

Analytical Results

WT2426599-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 10-Sep-2024 01:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	6.03	0.50	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Uranium, dissolved	7440-61-1	0.000732	0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Vanadium, dissolved	7440-62-2	0.00130	0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-Sep-2024	1646661
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2024	1648489
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00050	0.00050	mg/L	E532A/WT	-	12-Sep-2024	1647062
Aggregate Organics								
Biochemical oxygen demand [BOD]	----	<3.0 BODL	3.0	mg/L	E550/WT	-	12-Sep-2024	1647200
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	11-Sep-2024	12-Sep-2024	1646294
Phenols, total (4AAP)	----	0.0045	0.0010	mg/L	E562/EO	12-Sep-2024	12-Sep-2024	1647289
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloromethane	75-09-2	<2.5 SFPR	2.5	µg/L	E611D/WT	12-Sep-2024	13-Sep-2024	1647675
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675

Analytical Results

WT2426599-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 10-Sep-2024 01:15

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Hexane, n-	110-54-3	0.92		0.50	µg/L	E611D/WT	12-Sep-2024	13-Sep-2024	1647675
Methyl ethyl ketone [MEK]	78-93-3	<20		20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Methyl isobutyl ketone [MIBK]	108-10-1	<20		20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Styrene	100-42-5	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethylene	127-18-4	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Toluene	108-88-3	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	13-Sep-2024	1647675
Trichloroethane, 1,1,1-	71-55-6	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichloroethane, 1,1,2-	79-00-5	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichloroethylene	79-01-6	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichlorofluoromethane	75-69-4	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Vinyl chloride	75-01-4	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Xylene, m+p-	179601-23-1	<0.40		0.40	µg/L	E611D/WT	12-Sep-2024	13-Sep-2024	1647675
Xylene, o-	95-47-6	<0.30		0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D/WT	12-Sep-2024	13-Sep-2024	1647675
BTEX, total	----	<1.0		1.0	µg/L	E611D/WT	12-Sep-2024	13-Sep-2024	1647675
Hydrocarbons									
F1 (C6-C10)	----	<25		25	µg/L	E581.F1-L/WT	12-Sep-2024	12-Sep-2024	1647676
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	12-Sep-2024	-
F3 (C16-C34)	----	620	OWP,	250	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F3-PAH	n/a	620		250	µg/L	EC600SG/WT	-	12-Sep-2024	-
F4 (C34-C50)	----	250	OWP,	250	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	13-Sep-2024	-
Hydrocarbons, total (C6-C50)	n/a	870		370	µg/L	EC581SG/WT	-	13-Sep-2024	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.2		1.0	%	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
Dichlorotoluene, 3,4-	95-75-0	89.8		1.0	%	E581.F1-L/WT	12-Sep-2024	12-Sep-2024	1647676
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	90.2		1.0	%	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Difluorobenzene, 1,4-	540-36-3	101		1.0	%	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Acenaphthylene	208-96-8	<0.010		0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Anthracene	120-12-7	<0.010		0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benz(a)anthracene	56-55-3	<0.010		0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(a)pyrene	50-32-8	<0.0050		0.0050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(b+j)fluoranthene	n/a	<0.010		0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(g,h,i)perylene	191-24-2	<0.010		0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(k)fluoranthene	207-08-9	<0.010		0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Chrysene	218-01-9	<0.010		0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Dibenz(a,h)anthracene	53-70-3	<0.0050		0.0050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282

Analytical Results

WT2426599-003

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: MW4-23

Client sampling date / time: 10-Sep-2024 01:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 1-	90-12-0	0.027	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 1+2-	----	0.061	0.015	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 2-	91-57-6	0.034	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Pyrene	129-00-0	<0.030 DLM,	0.030	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	146	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Naphthalene-d8	1146-65-2	99.5	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phenanthrene-d10	1517-22-2	126	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<1.00 RRR,	1.00	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	82.0	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Nitrobenzene-d5	4165-60-0	86.7	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Terphenyl-d14, p-	1718-51-0	88.4	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	90.1	0.50	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2426599-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 10-Sep-2024 12:00

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Hardness (as CaCO3), dissolved	----	283		0.50	mg/L	EC100/WT	-	13-Sep-2024	-
Solids, total dissolved [TDS]	----	313	DLDS,	20	mg/L	E162/WT	-	13-Sep-2024	1649867
Alkalinity, total (as CaCO3)	----	2530		10.0	mg/L	E290/WT	12-Sep-2024	13-Sep-2024	1648136
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	0.148		0.0050	mg/L	E298/WT	12-Sep-2024	16-Sep-2024	1648601
Chloride	16887-00-6	9.16		0.50	mg/L	E235.Cl/WT	12-Sep-2024	13-Sep-2024	1648130
Kjeldahl nitrogen, total [TKN]	----	0.864		0.050	mg/L	E318/WT	16-Sep-2024	16-Sep-2024	1648603
Nitrate (as N)	14797-55-8	1.65		0.020	mg/L	E235.NO3/WT	12-Sep-2024	13-Sep-2024	1648134
Nitrite (as N)	14797-65-0	<0.010		0.010	mg/L	E235.NO2/WT	12-Sep-2024	13-Sep-2024	1648135
Phosphorus, total	7723-14-0	2.78		0.200	mg/L	E372-U/WT	13-Sep-2024	16-Sep-2024	1648604
Sulfate (as SO4)	14808-79-8	4.19		0.30	mg/L	E235.SO4/WT	12-Sep-2024	13-Sep-2024	1648131
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	12-Sep-2024	12-Sep-2024	1646784
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	2.54		0.50	mg/L	E358-L/WT	11-Sep-2024	12-Sep-2024	1645503
Dissolved Metals									
Aluminum, dissolved	7429-90-5	0.0030		0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Antimony, dissolved	7440-36-0	<0.00010		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Arsenic, dissolved	7440-38-2	0.00033		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Barium, dissolved	7440-39-3	0.0426		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Beryllium, dissolved	7440-41-7	<0.000020		0.000020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Bismuth, dissolved	7440-69-9	<0.000050		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Boron, dissolved	7440-42-8	0.012		0.010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cadmium, dissolved	7440-43-9	0.0000068		0.0000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Calcium, dissolved	7440-70-2	72.9		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cesium, dissolved	7440-46-2	<0.000010		0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Chromium, dissolved	7440-47-3	0.00194		0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Cobalt, dissolved	7440-48-4	0.00045		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Copper, dissolved	7440-50-8	0.00119		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Iron, dissolved	7439-89-6	<0.010		0.010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Lead, dissolved	7439-92-1	<0.000050		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Lithium, dissolved	7439-93-2	0.0014		0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Magnesium, dissolved	7439-95-4	24.6		0.0050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Manganese, dissolved	7439-96-5	0.0464		0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	13-Sep-2024	16-Sep-2024	1646661
Molybdenum, dissolved	7439-98-7	0.000629		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Nickel, dissolved	7440-02-0	<0.00050		0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Phosphorus, dissolved	7723-14-0	<0.050		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Potassium, dissolved	7440-09-7	1.62		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Rubidium, dissolved	7440-17-7	0.00166		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Selenium, dissolved	7782-49-2	0.000360		0.000050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Silicon, dissolved	7440-21-3	6.06		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Silver, dissolved	7440-22-4	<0.000010		0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Sodium, dissolved	7440-23-5	8.56		0.050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Strontium, dissolved	7440-24-6	0.113		0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489

Analytical Results

WT2426599-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 10-Sep-2024 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	1.68	0.50	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Thallium, dissolved	7440-28-0	0.000015	0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Uranium, dissolved	7440-61-1	0.000327	0.000010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Zinc, dissolved	7440-66-6	0.0036	0.0010	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	12-Sep-2024	12-Sep-2024	1648489
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	13-Sep-2024	1646661
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	12-Sep-2024	1648489
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00184	0.00050	mg/L	E532A/WT	-	12-Sep-2024	1647062
Aggregate Organics								
Biochemical oxygen demand [BOD]	----	<3.0 BODL	3.0	mg/L	E550/WT	-	13-Sep-2024	1649248
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	11-Sep-2024	12-Sep-2024	1646294
Phenols, total (4AAP)	----	0.0035	0.0010	mg/L	E562/EO	12-Sep-2024	12-Sep-2024	1647289
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	12-Sep-2024	13-Sep-2024	1647675
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675

Analytical Results

WT2426599-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 10-Sep-2024 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	12-Sep-2024	12-Sep-2024	1647676
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	12-Sep-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	12-Sep-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	16-Sep-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	13-Sep-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	69.1	1.0	%	E601.SG/WT	12-Sep-2024	16-Sep-2024	1646283
Dichlorotoluene, 3,4-	95-75-0	89.2	1.0	%	E581.F1-L/WT	12-Sep-2024	12-Sep-2024	1647676
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.1	1.0	%	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Difluorobenzene, 1,4-	540-36-3	101	1.0	%	E611D/WT	12-Sep-2024	12-Sep-2024	1647675
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282

Analytical Results

WT2426599-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 10-Sep-2024 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 1-	90-12-0	0.030	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 1+2-	----	0.065	0.015	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Methylnaphthalene, 2-	91-57-6	0.035	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Pyrene	129-00-0	0.013	0.010	µg/L	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	112	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Naphthalene-d8	1146-65-2	76.3	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phenanthrene-d10	1517-22-2	98.0	0.1	%	E641A/WT	12-Sep-2024	12-Sep-2024	1646282
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	79.7	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Nitrobenzene-d5	4165-60-0	91.4	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Terphenyl-d14, p-	1718-51-0	89.9	1.0	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Phenol	108-95-2	1.43	0.50	µg/L	E625A/WT	12-Sep-2024	12-Sep-2024	1646309
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	95.7	0.50	%	E625A/WT	12-Sep-2024	12-Sep-2024	1646309

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

ALS Canada Ltd.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2426599**	Page	: 1 of 22
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 10-Sep-2024 14:20
PO	: 735-009459	Issue Date	: 18-Sep-2024 19:32
C-O-C number	: ----		
Sampler	: Keegan Cleghorn		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Method Blank value outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Method Blank (MB) Values								
Volatile Organic Compounds	QC-MRG2-1647675 001	----	Dichloromethane	75-09-2	E611D	3.3 µg/L MB-LOR	1 µg/L	Blank result exceeds permitted value
Volatile Organic Compounds	QC-MRG2-1647675 001	----	Hexane, n-	110-54-3	E611D	1.04 µg/L MB-LOR	0.5 µg/L	Blank result exceeds permitted value

Result Qualifiers

Qualifier	*Description*
MB-LOR	*Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] DUP	E550	10-Sep-2024	----	----	----		12-Sep-2024	4 days	2 days	✓
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] MW3	E550	10-Sep-2024	----	----	----		12-Sep-2024	4 days	2 days	✓
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] MW4-23	E550	10-Sep-2024	----	----	----		12-Sep-2024	4 days	2 days	✓
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] MW5-23	E550	10-Sep-2024	----	----	----		13-Sep-2024	4 days	3 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW5-23	E567	10-Sep-2024	11-Sep-2024	28 days	1 days	✓	12-Sep-2024	28 days	2 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) DUP	E567	10-Sep-2024	11-Sep-2024	28 days	2 days	✓	12-Sep-2024	28 days	2 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW3	E567	10-Sep-2024	11-Sep-2024	28 days	2 days	✓	12-Sep-2024	28 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW4-23	E567	10-Sep-2024	11-Sep-2024	28 days	2 days	✓	12-Sep-2024	28 days	2 days	✓
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) DUP	E562	10-Sep-2024	12-Sep-2024	28 days	2 days	✓	12-Sep-2024	28 days	2 days	✓
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) MW3	E562	10-Sep-2024	12-Sep-2024	28 days	2 days	✓	12-Sep-2024	28 days	2 days	✓
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) MW5-23	E562	10-Sep-2024	12-Sep-2024	28 days	2 days	✓	12-Sep-2024	28 days	2 days	✓
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) MW4-23	E562	10-Sep-2024	12-Sep-2024	28 days	3 days	✓	12-Sep-2024	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) MW5-23	E298	10-Sep-2024	12-Sep-2024	28 days	2 days	✓	16-Sep-2024	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) DUP	E298	10-Sep-2024	12-Sep-2024	28 days	3 days	✓	16-Sep-2024	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) MW3	E298	10-Sep-2024	12-Sep-2024	28 days	3 days	✓	16-Sep-2024	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) MW4-23	E298	10-Sep-2024	12-Sep-2024	28 days	3 days	✓	16-Sep-2024	28 days	7 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW5-23	E235.Cl	10-Sep-2024	12-Sep-2024	28 days	2 days	✓	13-Sep-2024	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] DUP	E235.Cl	10-Sep-2024	12-Sep-2024	28 days	3 days	✓	13-Sep-2024	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW3	E235.Cl	10-Sep-2024	12-Sep-2024	28 days	3 days	✓	13-Sep-2024	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW4-23	E235.Cl	10-Sep-2024	12-Sep-2024	28 days	3 days	✓	13-Sep-2024	28 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] MW5-23	E235.NO3	10-Sep-2024	12-Sep-2024	7 days	2 days	✓	13-Sep-2024	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] DUP	E235.NO3	10-Sep-2024	12-Sep-2024	7 days	3 days	✓	13-Sep-2024	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] MW3	E235.NO3	10-Sep-2024	12-Sep-2024	7 days	3 days	✓	13-Sep-2024	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] MW4-23	E235.NO3	10-Sep-2024	12-Sep-2024	7 days	3 days	✓	13-Sep-2024	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] MW5-23	E235.NO2	10-Sep-2024	12-Sep-2024	7 days	2 days	✓	13-Sep-2024	7 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] DUP	E235.NO2	10-Sep-2024	12-Sep-2024	7 days	3 days	✓	13-Sep-2024	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] MW3	E235.NO2	10-Sep-2024	12-Sep-2024	7 days	3 days	✓	13-Sep-2024	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] MW4-23	E235.NO2	10-Sep-2024	12-Sep-2024	7 days	3 days	✓	13-Sep-2024	7 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] MW5-23	E235.SO4	10-Sep-2024	12-Sep-2024	28 days	2 days	✓	13-Sep-2024	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] DUP	E235.SO4	10-Sep-2024	12-Sep-2024	28 days	3 days	✓	13-Sep-2024	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] MW3	E235.SO4	10-Sep-2024	12-Sep-2024	28 days	3 days	✓	13-Sep-2024	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] MW4-23	E235.SO4	10-Sep-2024	12-Sep-2024	28 days	3 days	✓	13-Sep-2024	28 days	3 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) DUP	E318	10-Sep-2024	16-Sep-2024	28 days	6 days	✓	16-Sep-2024	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) MW3	E318	10-Sep-2024	16-Sep-2024	28 days	6 days	✓	16-Sep-2024	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) MW5-23	E318	10-Sep-2024	16-Sep-2024	28 days	6 days	✓	16-Sep-2024	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) MW4-23	E318	10-Sep-2024	16-Sep-2024	28 days	6 days	✓	16-Sep-2024	28 days	7 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) DUP	E372-U	10-Sep-2024	13-Sep-2024	28 days	3 days	✓	16-Sep-2024	28 days	6 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) MW3	E372-U	10-Sep-2024	13-Sep-2024	28 days	3 days	✓	16-Sep-2024	28 days	6 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) MW5-23	E372-U	10-Sep-2024	13-Sep-2024	28 days	3 days	✓	16-Sep-2024	28 days	6 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) MW4-23	E372-U	10-Sep-2024	13-Sep-2024	28 days	4 days	✓	16-Sep-2024	28 days	7 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] DUP	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW3	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW4-23	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
DUP	E333	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	14 days	2 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
MW3	E333	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	14 days	2 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
MW5-23	E333	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	14 days	2 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
MW4-23	E333	10-Sep-2024	12-Sep-2024	14 days	3 days	✓	12-Sep-2024	14 days	3 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
DUP	E509	10-Sep-2024	13-Sep-2024	28 days	3 days	✓	16-Sep-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW3	E509	10-Sep-2024	13-Sep-2024	28 days	3 days	✓	16-Sep-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW4-23	E509	10-Sep-2024	13-Sep-2024	28 days	3 days	✓	16-Sep-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW5-23	E509	10-Sep-2024	13-Sep-2024	28 days	3 days	✓	16-Sep-2024	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW5-23	E421	10-Sep-2024	12-Sep-2024	180 days	2 days	✓	12-Sep-2024	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) DUP	E421	10-Sep-2024	12-Sep-2024	180 days	2 days	✓	12-Sep-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW3	E421	10-Sep-2024	12-Sep-2024	180 days	2 days	✓	12-Sep-2024	180 days	3 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW4-23	E421	10-Sep-2024	12-Sep-2024	180 days	3 days	✓	12-Sep-2024	180 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) DUP	E581.F1-L	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	14 days	2 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW3	E581.F1-L	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	14 days	2 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW5-23	E581.F1-L	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	14 days	2 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW4-23	E581.F1-L	10-Sep-2024	12-Sep-2024	14 days	3 days	✓	12-Sep-2024	14 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) DUP	E601.SG	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	16-Sep-2024	40 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW3	E601.SG	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	16-Sep-2024	40 days	4 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW4-23	E601.SG	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	16-Sep-2024	40 days	4 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW5-23	E601.SG	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	16-Sep-2024	40 days	4 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] DUP	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW3	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW4-23	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW5-23	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) DUP	E358-L	10-Sep-2024	11-Sep-2024	28 days	1 days	✓	12-Sep-2024	28 days	2 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) MW3	E358-L	10-Sep-2024	11-Sep-2024	28 days	1 days	✓	12-Sep-2024	28 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) MW5-23	E358-L	10-Sep-2024	11-Sep-2024	28 days	1 days	✓	12-Sep-2024	28 days	2 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) MW4-23	E358-L	10-Sep-2024	11-Sep-2024	28 days	2 days	✓	12-Sep-2024	28 days	2 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] DUP	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW3	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW4-23	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW5-23	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] MW5-23	E290	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	13-Sep-2024	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] DUP	E290	10-Sep-2024	12-Sep-2024	14 days	3 days	✓	13-Sep-2024	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] MW3	E290	10-Sep-2024	12-Sep-2024	14 days	3 days	✓	13-Sep-2024	14 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] MW4-23	E290	10-Sep-2024	12-Sep-2024	14 days	3 days	✓	13-Sep-2024	14 days	3 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] DUP	E162	10-Sep-2024	----	----	----		13-Sep-2024	7 days	3 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] MW3	E162	10-Sep-2024	----	----	----		13-Sep-2024	7 days	3 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] MW5-23	E162	10-Sep-2024	----	----	----		13-Sep-2024	7 days	3 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] MW4-23	E162	10-Sep-2024	----	----	----		13-Sep-2024	7 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) DUP	E641A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW3	E641A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW4-23	E641A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW5-23	E641A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
DUP	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW3	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW4-23	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	40 days	0 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
DUP	E532A	10-Sep-2024	----	----	----		12-Sep-2024	28 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW3	E532A	10-Sep-2024	----	----	----		12-Sep-2024	28 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW4-23	E532A	10-Sep-2024	----	----	----		12-Sep-2024	28 days	2 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW5-23	E532A	10-Sep-2024	----	----	----		12-Sep-2024	28 days	2 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
DUP	E611D	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	14 days	2 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW3	E611D	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	14 days	2 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW5-23	E611D	10-Sep-2024	12-Sep-2024	14 days	2 days	✓	12-Sep-2024	14 days	2 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW4-23	E611D	10-Sep-2024	12-Sep-2024	14 days	3 days	✓	12-Sep-2024	14 days	3 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Alkalinity Species by Titration	E290	1648136	1	12	8.3	5.0	✓
Ammonia by Fluorescence	E298	1648601	1	20	5.0	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	1647200	2	39	5.1	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1647676	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	1648130	1	15	6.6	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1647062	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1646661	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1648489	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1645503	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	1648134	1	7	14.2	5.0	✓
Nitrite in Water by IC	E235.NO2	1648135	1	7	14.2	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1647289	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1648131	1	17	5.8	5.0	✓
TDS by Gravimetry	E162	1647189	2	39	5.1	5.0	✓
Total Cyanide	E333	1646784	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1648603	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1648604	1	15	6.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1647675	3	37	8.1	5.0	✓
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	1648136	1	12	8.3	5.0	✓
Ammonia by Fluorescence	E298	1648601	1	20	5.0	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	1647200	2	39	5.1	5.0	✓
BNA (Routine List) by GC-MS-MS	E625A	1646309	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1647676	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	1648130	1	15	6.6	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1647062	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1646661	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1648489	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1645503	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	1648134	1	7	14.2	5.0	✓
Nitrite in Water by IC	E235.NO2	1648135	1	7	14.2	5.0	✓
Oil & Grease by Gravimetry	E567	1646294	1	15	6.6	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1646282	1	14	7.1	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1647289	1	20	5.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1646283	1	13	7.6	5.0	✓
Sulfate in Water by IC	E235.SO4	1648131	1	17	5.8	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Control Samples (LCS) - Continued							
TDS by Gravimetry	E162	1647189	2	39	5.1	5.0	✓
Total Cyanide	E333	1646784	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1648603	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1648604	1	15	6.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1647675	3	37	8.1	5.0	✓
Method Blanks (MB)							
Alkalinity Species by Titration	E290	1648136	1	12	8.3	5.0	✓
Ammonia by Fluorescence	E298	1648601	1	20	5.0	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	1647200	2	39	5.1	5.0	✓
BNA (Routine List) by GC-MS-MS	E625A	1646309	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1647676	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	1648130	1	15	6.6	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1647062	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1646661	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1648489	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1645503	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	1648134	1	7	14.2	5.0	✓
Nitrite in Water by IC	E235.NO2	1648135	1	7	14.2	5.0	✓
Oil & Grease by Gravimetry	E567	1646294	1	15	6.6	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1646282	1	14	7.1	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1647289	1	20	5.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1646283	1	13	7.6	5.0	✓
Sulfate in Water by IC	E235.SO4	1648131	1	17	5.8	5.0	✓
TDS by Gravimetry	E162	1647189	2	39	5.1	5.0	✓
Total Cyanide	E333	1646784	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1648603	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1648604	1	15	6.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1647675	3	37	8.1	5.0	✓
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	1648601	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1647676	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	1648130	1	15	6.6	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1647062	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1646661	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1648489	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1645503	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	1648134	1	7	14.2	5.0	✓
Nitrite in Water by IC	E235.NO2	1648135	1	7	14.2	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1647289	1	20	5.0	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Sulfate in Water by IC	E235.SO4	1648131	1	17	5.8	5.0	✓
Total Cyanide	E333	1646784	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1648603	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1648604	1	15	6.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1647675	2	37	5.4	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
TDS by Gravimetry	E162 ALS Environmental - Waterloo	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at 180 ± 2°C for 16 hours or to constant weight, with gravimetric measurement of the residue.
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite in Water by IC	E235.NO2 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate in Water by IC	E235.NO3 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Sulfate in Water by IC	E235.SO4 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Alkalinity Species by Titration	E290 ALS Environmental - Waterloo	Water	APHA 2320 B (mod)	Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.
Ammonia by Fluorescence	E298 ALS Environmental - Waterloo	Water	Method Fialab 100, 2018	Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021)
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318 ALS Environmental - Waterloo	Water	Method Fialab 100, 2018	TKN in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021).
Total Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Organic Carbon by Combustion (Low Level)	E358-L ALS Environmental - Waterloo	Water	APHA 5310 B (mod)	Dissolved Organic Carbon (Non-Purgeable), also known as NPOC (dissolved), is a direct measurement of DOC after a filtered (0.45 micron) sample has been acidified and purged to remove inorganic carbon (IC). Analysis is by high temperature combustion with infrared detection of CO2. NPOC does not include volatile organic species that are purged off with IC. For samples where the majority of DC (dissolved carbon) is comprised of IC (which is common), this method is more accurate and more reliable than the DOC by subtraction method (i.e. DC minus DIC).
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U ALS Environmental - Waterloo	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A ALS Environmental - Waterloo	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
Biochemical Oxygen Demand - 5 day	E550 ALS Environmental - Waterloo	Water	APHA 5210 B (mod)	Samples are diluted and incubated for a specified time period, after which the oxygen depletion is measured using a dissolved oxygen meter. Free chlorine is a negative interference in the BOD method; please advise ALS when free chlorine is present in samples.
Phenols (4AAP) in Water by Colorimetry	E562 ALS Environmental - Edmonton	Water	EPA 9066	This automated method is based on the distillation of phenol and subsequent reaction of the distillate with alkaline ferricyanide (K3Fe(CN)6) and 4-amino-antipyrine (4-AAP) to form a red complex which is measured colorimetrically.
Oil & Grease by Gravimetry	E567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
BNA (Routine List) by GC-MS-MS	E625A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS-MS.
PAHs in Water by Hexane LVI GC-MS	E641A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Waterloo	Water	APHA 2340B	"Hardness (as CaCO3), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations.
F1-BTEX	EC580 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Preparation for Ammonia	EP298 ALS Environmental - Waterloo	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Digestion for TKN in water	EP318 ALS Environmental - Waterloo	Water	APHA 4500-Norg D (mod)	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst, which converts organic nitrogen sources to Ammonia, which is then quantified by the analytical method as TKN. This method is unsuitable for samples containing high levels of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be biased low.
Preparation for Dissolved Organic Carbon for Combustion	EP358 ALS Environmental - Waterloo	Water	APHA 5310 B (mod)	Preparation for Dissolved Organic Carbon
Digestion for Total Phosphorus in water	EP372 ALS Environmental - Waterloo	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into a GC-MS-FID.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
BNA Extraction	EP625 ALS Environmental - Waterloo	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.

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QUALITY CONTROL REPORT

Work Order	: **WT2426599**	Page	: 1 of 27
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 10-Sep-2024 14:20
PO	: 735-009459	Date Analysis Commenced	: 11-Sep-2024
C-O-C number	: ----	Issue Date	: 18-Sep-2024 19:32
Sampler	: Keegan Cleghorn		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Brooke Miller	Laboratory Analyst	Edmonton Inorganics, Edmonton, Alberta
Hannah Lewis	Inorganics Analyst	Waterloo Inorganics, Waterloo, Ontario
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Waterloo Metals, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Inorganics, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 1647189)											
HA2402157-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	1760	1750	0.484%	20%	----
Physical Tests (QC Lot: 1648136)											
HA2402134-005	Anonymous	Alkalinity, total (as CaCO3)	----	E290	2.0	mg/L	25.9	25.6	1.09%	20%	----
Physical Tests (QC Lot: 1649867)											
HA2402153-029	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	122	126	4	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1648130)											
WT2426511-001	Anonymous	Chloride	16887-00-6	E235.Cl	2.50	mg/L	66.7	66.1	0.946%	20%	----
Anions and Nutrients (QC Lot: 1648131)											
WT2426511-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	1.50	mg/L	37.8	37.5	0.793%	20%	----
Anions and Nutrients (QC Lot: 1648134)											
WT2426511-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	0.100	mg/L	0.892	0.908	0.016	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1648135)											
WT2426511-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1648601)											
HA2402158-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0082	0.0094	0.0012	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1648603)											
HA2402150-002	Anonymous	Kjeldahl nitrogen, total [TKN]	----	E318	0.050	mg/L	0.515	0.505	1.98%	20%	----
Anions and Nutrients (QC Lot: 1648604)											
HA2402150-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0047	0.0047	0.00001	Diff <2x LOR	----
Cyanides (QC Lot: 1646784)											
CG2412816-002	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 1645503)											
HA2402135-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	2.28	2.28	0.0004	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1646661)											
TY2409843-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1648489)											
WT2426524-007	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.0100	mg/L	<0.0100	<0.0100	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.0100	mg/L	<0.0100	<0.0100	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1648489) - continued											
WT2426524-007	Anonymous	Barium, dissolved	7440-39-3	E421	0.0100	mg/L	97.4	95.9	1.61%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.00200	mg/L	<0.00200	<0.00200	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.00500	mg/L	<0.00500	<0.00500	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	1.00	mg/L	<1.00	<1.00	0	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.000500	mg/L	<0.000500	<0.000500	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	5.00	mg/L	1520	1540	1.17%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.0500	mg/L	<0.0500	<0.0500	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.0100	mg/L	<0.0100	<0.0100	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.0200	mg/L	<0.0200	<0.0200	0	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	1.00	mg/L	183	188	2.37%	20%	----
		Lead, dissolved	7439-92-1	E421	0.00500	mg/L	<0.00500	<0.00500	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.500	mg/L	178	180	1.50%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.0100	mg/L	1.31	1.33	2.14%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.00500	mg/L	<0.00500	<0.00500	0	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.0500	mg/L	<0.0500	<0.0500	0	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	5.00	mg/L	<5.00	<5.00	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	5.00	mg/L	8.76	8.61	0.142	Diff <2x LOR	----
		Rubidium, dissolved	7440-17-7	E421	0.0200	mg/L	<0.0200	<0.0200	0	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.00500	mg/L	<0.00500	<0.00500	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	5.00	mg/L	17.6	18.0	0.424	Diff <2x LOR	----
		Silver, dissolved	7440-22-4	E421	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	5.00	mg/L	218	215	1.17%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.0200	mg/L	5.73	5.90	2.93%	20%	----
		Sulfur, dissolved	7704-34-9	E421	50.0	mg/L	<50.0	<50.0	0	Diff <2x LOR	----
		Tellurium, dissolved	13494-80-9	E421	0.0200	mg/L	<0.0200	<0.0200	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.0100	mg/L	<0.0100	<0.0100	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.0100	mg/L	<0.0100	<0.0100	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.0300	mg/L	<0.0300	<0.0300	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.0100	mg/L	<0.0100	<0.0100	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
		Vanadium, dissolved	7440-62-2	E421	0.0500	mg/L	<0.0500	<0.0500	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1648489) - continued											
WT2426524-007	Anonymous	Zinc, dissolved	7440-66-6	E421	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.0300	mg/L	<0.0300	<0.0300	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1647062)											
TY2409940-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
Aggregate Organics (QC Lot: 1647200)											
WT2426599-001	MW3	Biochemical oxygen demand [BOD]	----	E550	3.0	mg/L	<3.0	<3.0	0.0%	30%	----
Aggregate Organics (QC Lot: 1647289)											
RG2401406-001	Anonymous	Phenols, total (4AAP)	----	E562	0.0010	mg/L	0.0026	0.0018	0.0008	Diff <2x LOR	----
Aggregate Organics (QC Lot: 1649248)											
WT2426709-001	Anonymous	Biochemical oxygen demand [BOD]	----	E550	2.0	mg/L	3.0	3.4	11.3%	30%	----
Volatile Organic Compounds (QC Lot: 1647675)											
WT2426470-001	Anonymous	Benzene	71-43-2	E611D	0.50	µg/L	0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
WT2426470-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1647675) - continued											
WT2426470-001	Anonymous	Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	0.51	0.50	0.01	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1649814)											
WT2426609-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	1.00	µg/L	<1.00	<1.00	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1649814) - continued											
WT2426609-001	Anonymous	Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	0.83	0.84	0.01	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	0.52	0.52	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	1.84	1.86	0.02	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	1.10	1.11	0.01	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1647676)											
WT2426470-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 1647189)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Physical Tests (QCLot: 1648136)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 1649867)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 1648130)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1648131)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 1648134)						
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1648135)						
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	<0.010	----
Anions and Nutrients (QCLot: 1648601)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1648603)						
Kjeldahl nitrogen, total [TKN]	----	E318	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1648604)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Cyanides (QCLot: 1646784)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Organic / Inorganic Carbon (QCLot: 1645503)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Dissolved Metals (QCLot: 1646661)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1648489)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1648489) - continued						
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Speciated Metals (QCLot: 1647062)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Aggregate Organics (QCLot: 1646294)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 1647200)						
Biochemical oxygen demand [BOD]	----	E550	2	mg/L	<2.0	----
Aggregate Organics (QCLot: 1647289)						
Phenols, total (4AAP)	----	E562	0.001	mg/L	<0.0010	----
Aggregate Organics (QCLot: 1649248)						
Biochemical oxygen demand [BOD]	----	E550	2	mg/L	<2.0	----
Volatile Organic Compounds (QCLot: 1647675)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	# 3.3	MB-LOR
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	# 1.04	MB-LOR
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1647675) - continued						
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Volatile Organic Compounds (QCLot: 1649419)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1649419) - continued						
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Volatile Organic Compounds (QCLot: 1649814)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1649814) - continued						
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1646283)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Hydrocarbons (QCLot: 1647676)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1646282)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1646282) - continued						
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Phthalate Esters (QCLot: 1646309)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	<0.60	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	<0.20	----
Semi-Volatile Organics (QCLot: 1646309)						
Biphenyl	92-52-4	E625A	0.2	µg/L	<0.20	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 1646309)						
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	<0.20	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	<0.20	----
Non-Chlorinated Phenolics (QCLot: 1646309)						

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Non-Chlorinated Phenolics (QCLot: 1646309) - continued						
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	<1.0	----
Phenol	108-95-2	E625A	0.5	µg/L	<0.50	----

Qualifiers

Qualifier	Description
MB-LOR	*Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.*

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1647189)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	96.2	85.0	115	----
Physical Tests (QCLot: 1648136)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	150 mg/L	99.3	85.0	115	----
Physical Tests (QCLot: 1649867)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	89.2	85.0	115	----
Anions and Nutrients (QCLot: 1648130)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	99.8	90.0	110	----
Anions and Nutrients (QCLot: 1648131)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1648134)									
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	2.5 mg/L	99.5	90.0	110	----
Anions and Nutrients (QCLot: 1648135)									
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	0.5 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1648601)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	98.4	85.0	115	----
Anions and Nutrients (QCLot: 1648603)									
Kjeldahl nitrogen, total [TKN]	----	E318	0.05	mg/L	4 mg/L	105	75.0	125	----
Anions and Nutrients (QCLot: 1648604)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.333 mg/L	102	80.0	120	----
Cyanides (QCLot: 1646784)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	94.0	80.0	120	----
Organic / Inorganic Carbon (QCLot: 1645503)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	88.0	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	98.3	80.0	120	----
Dissolved Metals (QCLot: 1648489)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	97.8	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	106	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	104	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Dissolved Metals (QCLot: 1648489) - continued									
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.012 mg/L	99.2	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	96.8	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	101	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	99.3	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	97.2	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	96.6	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.002 mg/L	105	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.012 mg/L	97.8	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.012 mg/L	96.1	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.012 mg/L	95.7	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	96.8	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	102	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.012 mg/L	100	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	110	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.012 mg/L	99.0	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.012 mg/L	100	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	96.6	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	99.2	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	101	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	98.8	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	100	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	97.8	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	93.6	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	104	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.012 mg/L	105	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	99.2	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	102	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	101	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	96.8	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	99.1	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.012 mg/L	94.5	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	98.9	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0 mg/L	100	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	99.0	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	96.3	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	98.7	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Speciated Metals (QCLot: 1647062)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	99.5	80.0	120	----
Aggregate Organics (QCLot: 1646294)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	95.3	70.0	130	----
Aggregate Organics (QCLot: 1647200)									
Biochemical oxygen demand [BOD]	----	E550	2	mg/L	198 mg/L	95.0	85.0	115	----
Aggregate Organics (QCLot: 1647289)									
Phenols, total (4AAP)	----	E562	0.001	mg/L	0.02 mg/L	97.8	85.0	115	----
Aggregate Organics (QCLot: 1649248)									
Biochemical oxygen demand [BOD]	----	E550	2	mg/L	198 mg/L	99.1	85.0	115	----
Volatile Organic Compounds (QCLot: 1647675)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	91.6	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	86.0	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	86.2	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	81.1	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	68.4	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	82.8	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	88.4	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	85.6	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	74.0	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	74.8	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	83.4	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	87.6	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	87.5	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	86.7	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	88.7	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	95.4	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	89.3	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	82.9	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	88.9	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	84.7	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	83.2	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	89.2	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	88.4	70.0	130	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1647675) - continued									
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	86.8	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	79.8	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	77.8	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	78.3	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	91.9	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	86.4	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	76.9	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	78.6	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	79.3	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	84.3	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	92.8	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	78.8	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	79.0	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	86.4	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	84.9	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	91.2	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	87.0	70.0	130	----
Volatile Organic Compounds (QCLot: 1649419)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	87.9	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	92.7	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	95.4	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	98.4	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	80.6	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	105	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	96.4	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	93.6	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	98.8	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	92.4	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	97.4	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	98.4	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	96.5	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	99.6	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	89.3	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	87.7	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	92.4	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	88.1	70.0	130	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1649419) - continued									
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	98.0	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	88.9	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	87.4	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	91.8	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	89.7	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	95.2	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	93.6	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	86.6	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	79.6	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	98.8	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	84.4	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	110	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	94.5	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	90.8	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	100	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	101	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	95.6	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	95.1	70.0	130	----
Volatile Organic Compounds (QCLot: 1649814)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	105	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	97.7	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	97.7	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	119	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	89.2	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	110	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	92.7	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	94.6	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	90.4	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	98.3	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Volatile Organic Compounds (QCLot: 1649814) - continued									
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	108	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	97.2	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	95.2	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	96.2	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	97.5	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	93.9	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	94.0	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	95.6	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	96.1	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	96.5	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	107	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	95.0	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	96.2	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	125	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	97.4	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	88.2	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	110	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	108	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	95.3	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	98.5	70.0	130	----
Hydrocarbons (QCLot: 1646283)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4000 µg/L	98.6	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	8270 µg/L	105	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4470 µg/L	88.9	70.0	130	----
Hydrocarbons (QCLot: 1647676)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	109	80.0	120	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1646282)									

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1646282) - continued									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.526 µg/L	102	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.526 µg/L	103	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.526 µg/L	102	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.526 µg/L	121	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.526 µg/L	106	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.526 µg/L	104	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.526 µg/L	104	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.526 µg/L	86.7	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.526 µg/L	106	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.526 µg/L	97.3	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.526 µg/L	114	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.526 µg/L	108	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.526 µg/L	129	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.526 µg/L	100	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.526 µg/L	103	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.526 µg/L	89.3	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.526 µg/L	109	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.526 µg/L	115	50.0	140	----
Phthalate Esters (QCLot: 1646309)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	33.7 µg/L	103	50.0	140	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	33.7 µg/L	93.9	50.0	140	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	33.7 µg/L	91.0	50.0	140	----
Semi-Volatile Organics (QCLot: 1646309)									
Biphenyl	92-52-4	E625A	0.2	µg/L	8.42 µg/L	82.6	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	8.42 µg/L	79.4	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	8.42 µg/L	86.7	50.0	140	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	8.42 µg/L	96.4	30.0	140	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	8.42 µg/L	88.7	50.0	140	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	8.42 µg/L	84.8	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	8.42 µg/L	81.0	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	8.42 µg/L	80.7	50.0	130	----
Chlorinated Phenolics (QCLot: 1646309)									
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	25.3 µg/L	81.9	65.0	130	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Chlorinated Phenolics (QCLot: 1646309) - continued									
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	25.3 µg/L	90.8	65.0	130	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	25.3 µg/L	87.9	65.0	130	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	25.3 µg/L	96.7	65.0	130	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	25.3 µg/L	94.7	65.0	130	----
Non-Chlorinated Phenolics (QCLot: 1646309)									
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	25.3 µg/L	86.0	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	25.3 µg/L	71.2	40.0	140	----
Phenol	108-95-2	E625A	0.5	µg/L	25.3 µg/L	105	30.0	130	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1648130)										
WT2426511-001	Anonymous	Chloride	16887-00-6	E235.Cl	514 mg/L	500 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 1648131)										
WT2426511-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	520 mg/L	500 mg/L	104	75.0	125	----
Anions and Nutrients (QCLot: 1648134)										
WT2426511-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	12.7 mg/L	12.5 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1648135)										
WT2426511-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	2.55 mg/L	2.5 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1648601)										
HA2402158-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.107 mg/L	0.1 mg/L	107	75.0	125	----
Anions and Nutrients (QCLot: 1648603)										
HA2402150-002	Anonymous	Kjeldahl nitrogen, total [TKN]	----	E318	2.94 mg/L	2.5 mg/L	118	70.0	130	----
Anions and Nutrients (QCLot: 1648604)										
HA2402150-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0982 mg/L	0.1 mg/L	98.2	70.0	130	----
Cyanides (QCLot: 1646784)										
CG2412816-002	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	9.65 mg/L	12.5 mg/L	77.2	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1645503)										
HA2402135-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	5.20 mg/L	5 mg/L	104	70.0	130	----
Dissolved Metals (QCLot: 1646661)										
TY2409843-002	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000865 mg/L	0 mg/L	86.5	70.0	130	----
Dissolved Metals (QCLot: 1648489)										
WT2426524-008	Anonymous	Aluminum, dissolved	7429-90-5	E421	9.02 mg/L	10 mg/L	90.2	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	4.80 mg/L	5 mg/L	96.0	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	4.94 mg/L	5 mg/L	98.8	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.468 mg/L	0.5 mg/L	93.5	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	4.68 mg/L	5 mg/L	93.6	70.0	130	----
		Boron, dissolved	7440-42-8	E421	4.72 mg/L	5 mg/L	94.4	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.474 mg/L	0.5 mg/L	94.8	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.240 mg/L	0.25 mg/L	96.0	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	1.19 mg/L	1.25 mg/L	95.2	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	1.16 mg/L	1.25 mg/L	93.1	70.0	130	----
		Copper, dissolved	7440-50-8	E421	1.16 mg/L	1.25 mg/L	92.4	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 1648489) - continued										
WT2426524-008	Anonymous	Iron, dissolved	7439-89-6	E421	ND mg/L	----	ND	70.0	130	----
		Lead, dissolved	7439-92-1	E421	2.39 mg/L	2.5 mg/L	95.5	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	1.21 mg/L	1.25 mg/L	96.6	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	1.14 mg/L	1.25 mg/L	91.6	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	1.24 mg/L	1.25 mg/L	98.8	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	2.34 mg/L	2.5 mg/L	93.7	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	48.0 mg/L	50 mg/L	95.9	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	239 mg/L	250 mg/L	95.8	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.473 mg/L	0.5 mg/L	94.6	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	4.84 mg/L	5 mg/L	96.9	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	47.1 mg/L	50 mg/L	94.3	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.452 mg/L	0.5 mg/L	90.3	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	226 mg/L	250 mg/L	90.6	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	240 mg/L	250 mg/L	95.8	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.474 mg/L	0.5 mg/L	94.8	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	4.78 mg/L	5 mg/L	95.5	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.468 mg/L	0.5 mg/L	93.7	70.0	130	----
		Tin, dissolved	7440-31-5	E421	2.41 mg/L	2.5 mg/L	96.3	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	1.12 mg/L	1.25 mg/L	89.8	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.475 mg/L	0.5 mg/L	95.0	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.0242 mg/L	0.025 mg/L	97.0	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	2.39 mg/L	2.5 mg/L	95.5	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	2.27 mg/L	2.5 mg/L	90.9	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.477 mg/L	0.5 mg/L	95.4	70.0	130	----
Speciated Metals (QCLot: 1647062)										
TY2409940-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0394 mg/L	0.04 mg/L	98.5	70.0	130	----
Aggregate Organics (QCLot: 1647289)										
RG2401406-002	Anonymous	Phenols, total (4AAP)	----	E562	0.0209 mg/L	0.02 mg/L	105	75.0	125	----
Volatile Organic Compounds (QCLot: 1647675)										
WT2426470-001	Anonymous	Acetone	67-64-1	E611D	115 µg/L	100 µg/L	115	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	97.0 µg/L	100 µg/L	97.0	60.0	140	----
		Bromoform	75-25-2	E611D	91.4 µg/L	100 µg/L	91.4	60.0	140	----
		Bromomethane	74-83-9	E611D	68.7 µg/L	100 µg/L	68.7	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	87.3 µg/L	100 µg/L	87.3	60.0	140	----
		Chlorobenzene	108-90-7	E611D	96.5 µg/L	100 µg/L	96.5	60.0	140	----
		Chloroform	67-66-3	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	82.6 µg/L	100 µg/L	82.6	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	85.4 µg/L	100 µg/L	85.4	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	90.7 µg/L	100 µg/L	90.7	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----

Sub-Matrix: **Water**

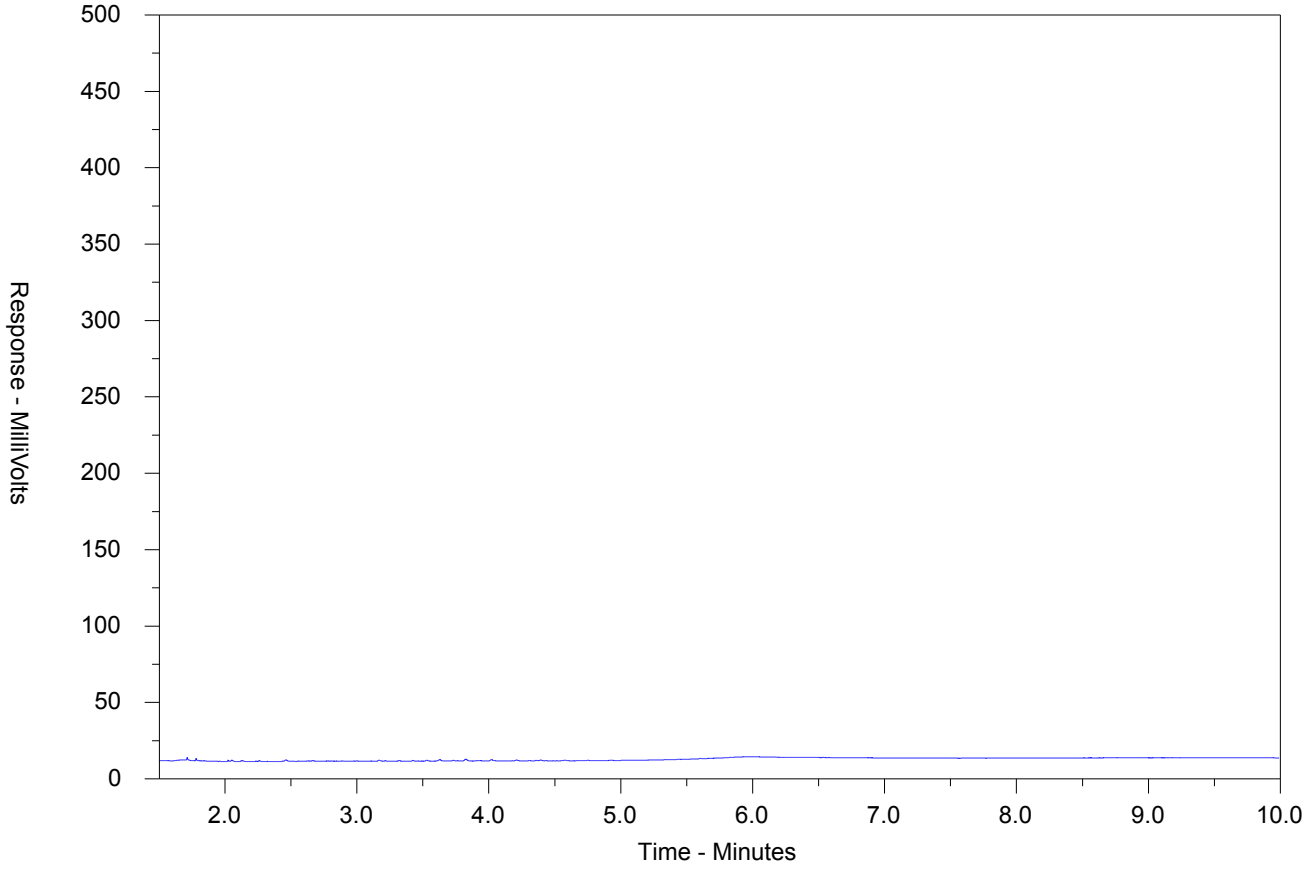
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1647675) - continued										
WT2426470-001	Anonymous	Dichlorobenzene, 1,4-	106-46-7	E611D	93.8 µg/L	100 µg/L	93.8	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	95.6 µg/L	100 µg/L	95.6	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	110 µg/L	100 µg/L	110	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	94.2 µg/L	100 µg/L	94.2	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	90.2 µg/L	100 µg/L	90.2	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	95.6 µg/L	100 µg/L	95.6	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	92.2 µg/L	100 µg/L	92.2	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	95.9 µg/L	100 µg/L	95.9	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	94.1 µg/L	100 µg/L	94.1	60.0	140	----
		Ethylbenzene	100-41-4	E611D	91.4 µg/L	100 µg/L	91.4	60.0	140	----
		Hexane, n-	110-54-3	E611D	83.7 µg/L	100 µg/L	83.7	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	95 µg/L	100 µg/L	95.5	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	95 µg/L	100 µg/L	94.9	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	97.8 µg/L	100 µg/L	97.8	60.0	140	----
		Styrene	100-42-5	E611D	92.2 µg/L	100 µg/L	92.2	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	84.0 µg/L	100 µg/L	84.0	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	91.4 µg/L	100 µg/L	91.4	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	82.5 µg/L	100 µg/L	82.5	60.0	140	----
		Toluene	108-88-3	E611D	89.4 µg/L	100 µg/L	89.4	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	98.3 µg/L	100 µg/L	98.3	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	89.7 µg/L	100 µg/L	89.7	60.0	140	----
		Trichloroethylene	79-01-6	E611D	84.7 µg/L	100 µg/L	84.7	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	90.0 µg/L	100 µg/L	90.0	60.0	140	----
		Vinyl chloride	75-01-4	E611D	89.5 µg/L	100 µg/L	89.5	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	195 µg/L	200 µg/L	97.7	60.0	140	----
		Xylene, o-	95-47-6	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----
Volatile Organic Compounds (QCLot: 1649814)										
WT2426609-001	Anonymous	Acetone	67-64-1	E611D	130 µg/L	100 µg/L	130	60.0	140	----
		Benzene	71-43-2	E611D	96.1 µg/L	100 µg/L	96.1	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Bromoform	75-25-2	E611D	122 µg/L	100 µg/L	122	60.0	140	----
		Bromomethane	74-83-9	E611D	86.1 µg/L	100 µg/L	86.1	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Chlorobenzene	108-90-7	E611D	91.0 µg/L	100 µg/L	91.0	60.0	140	----
		Chloroform	67-66-3	E611D	93.8 µg/L	100 µg/L	93.8	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	111 µg/L	100 µg/L	111	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	94.8 µg/L	100 µg/L	94.8	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	99.9 µg/L	100 µg/L	99.9	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	97.5 µg/L	100 µg/L	97.5	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	90.0 µg/L	100 µg/L	90.0	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	102 µg/L	100 µg/L	102	60.0	140	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1649814) - continued										
WT2426609-001	Anonymous	Dichloroethylene, 1,1-	75-35-4	E611D	95.5 µg/L	100 µg/L	95.5	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	95.6 µg/L	100 µg/L	95.6	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----
		Dichloromethane	75-09-2	E611D	96.1 µg/L	100 µg/L	96.1	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	95.2 µg/L	100 µg/L	95.2	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	94.9 µg/L	100 µg/L	94.9	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	94.8 µg/L	100 µg/L	94.8	60.0	140	----
		Ethylbenzene	100-41-4	E611D	97.1 µg/L	100 µg/L	97.1	60.0	140	----
		Hexane, n-	110-54-3	E611D	89.5 µg/L	100 µg/L	89.5	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	113 µg/L	100 µg/L	113	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	120 µg/L	100 µg/L	120	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	93.7 µg/L	100 µg/L	93.7	60.0	140	----
		Styrene	100-42-5	E611D	91.8 µg/L	100 µg/L	91.8	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	97.1 µg/L	100 µg/L	97.1	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	115 µg/L	100 µg/L	115	60.0	140	----
		Toluene	108-88-3	E611D	96.9 µg/L	100 µg/L	96.9	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	91.8 µg/L	100 µg/L	91.8	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	90.9 µg/L	100 µg/L	90.9	60.0	140	----
		Trichloroethylene	79-01-6	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Vinyl chloride	75-01-4	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	182 µg/L	200 µg/L	91.2	60.0	140	----
		Xylene, o-	95-47-6	E611D	93.4 µg/L	100 µg/L	93.4	60.0	140	----
Hydrocarbons (QCLot: 1647676)										
WT2426470-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1790 µg/L	2000 µg/L	89.3	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2426599-001-E601.SG
Client Sample ID: MW3



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

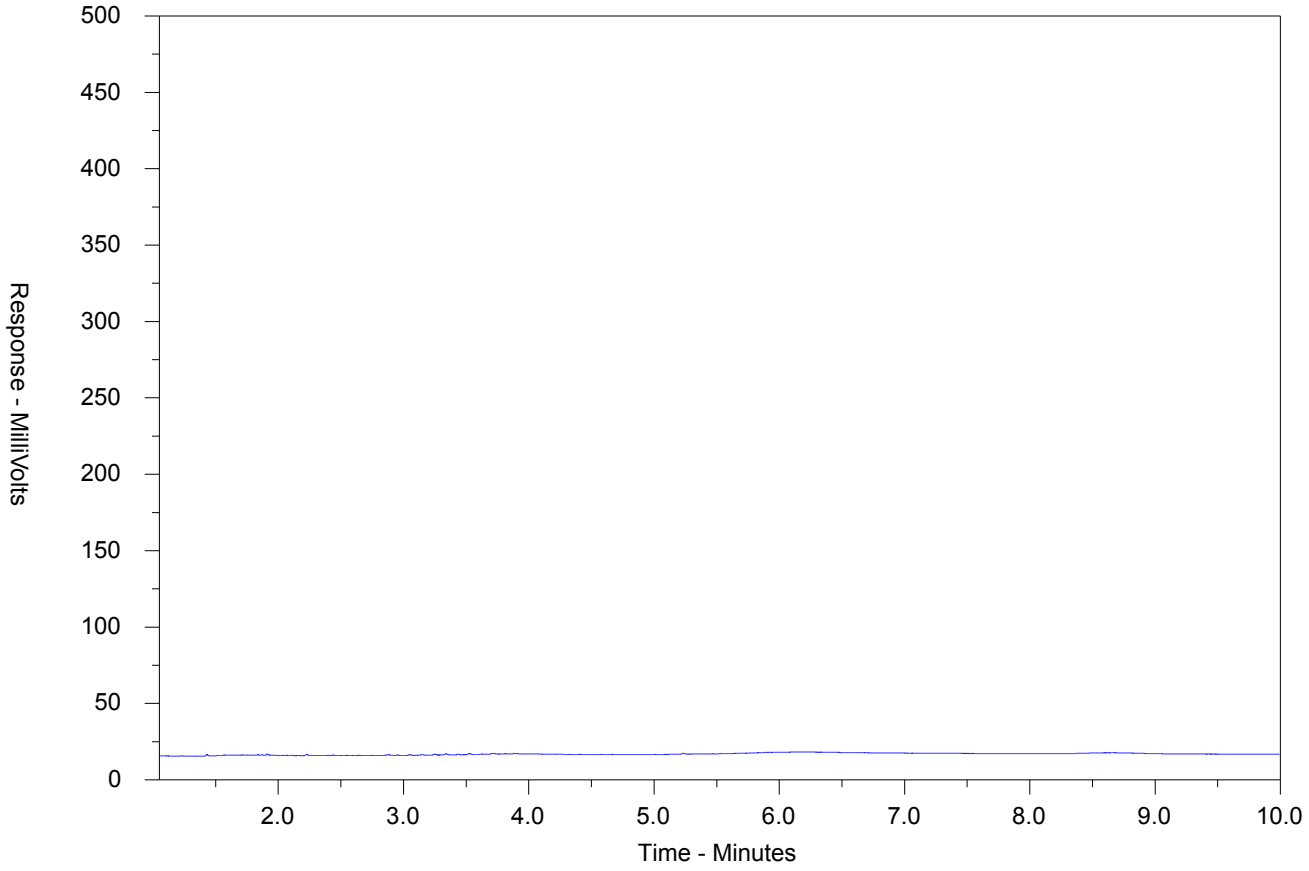
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2426599-002-E601.SG
Client Sample ID: DUP



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

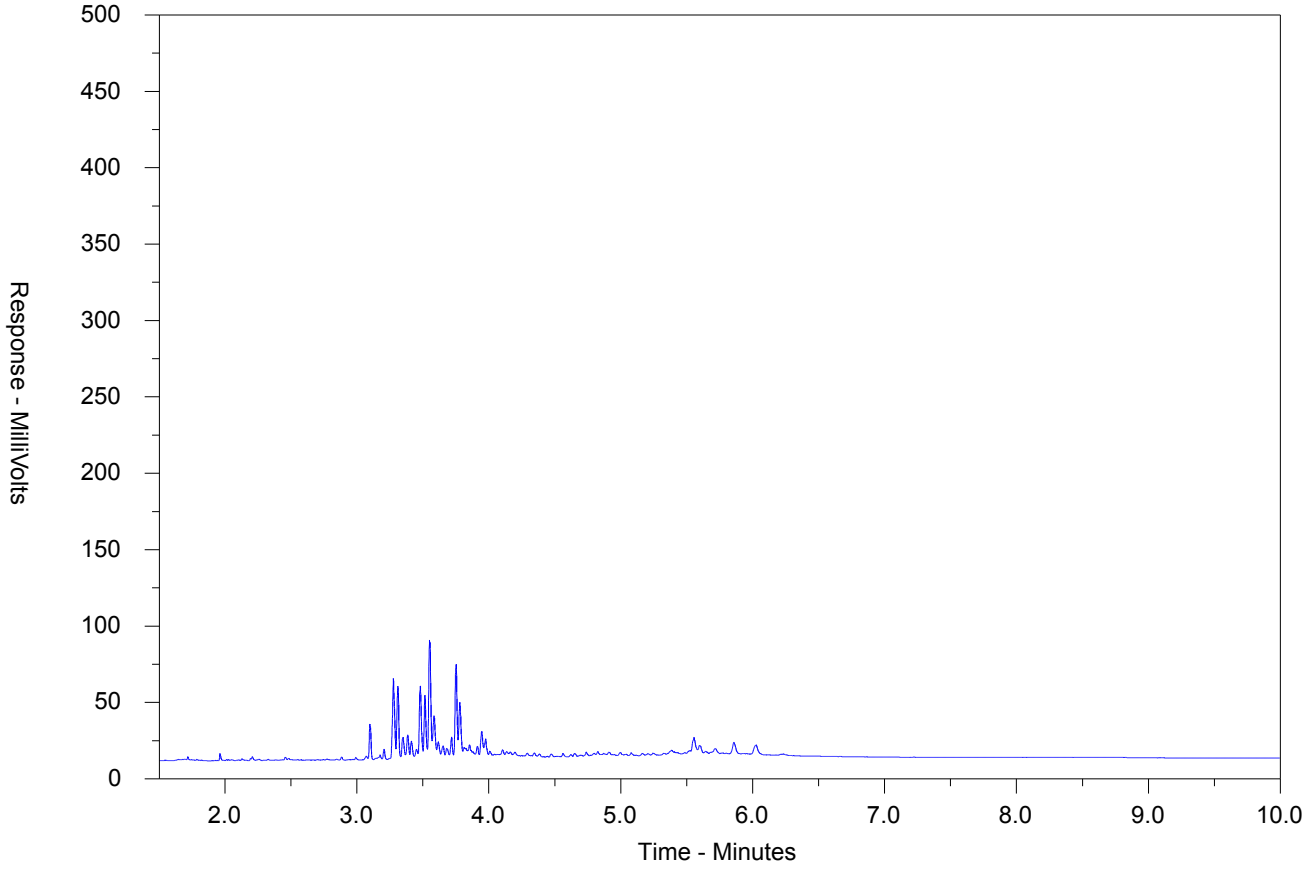
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2426599-003-E601.SG
Client Sample ID: MW4-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

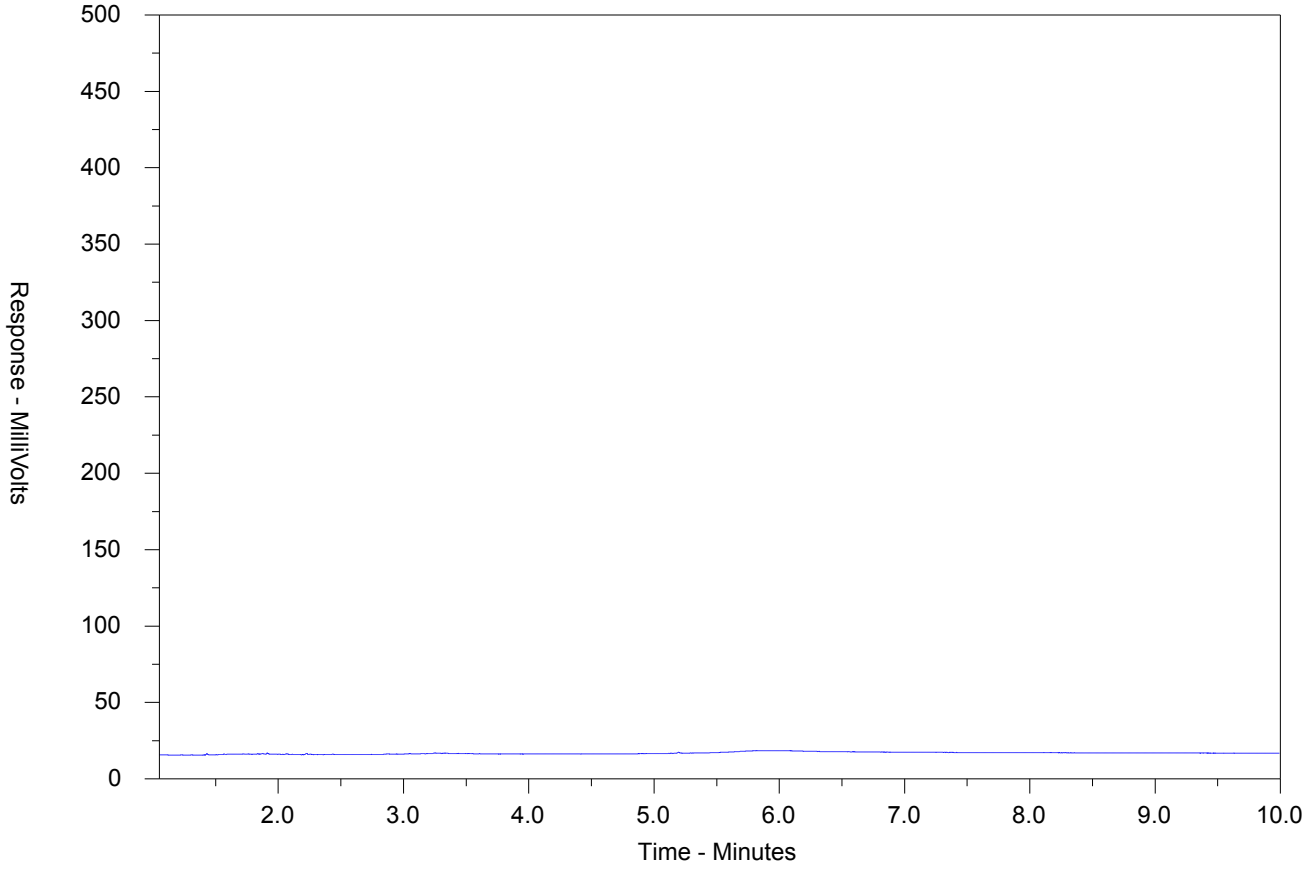
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2426599-004-E601.SG
Client Sample ID: MW5-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

ALS www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Environmental Division Waterloo
Work Order Reference
WT2426599

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: pascal.renella@ghd.com
Email 2: See SSOW/PO
Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accountspayableCDN@ghd.com
Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges appl
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge
☐ Same day [E2] if received by 10am M-S - 200% rush surc
fees may apply to rush resuests on weekends, statutory holi
routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according

Project Information

ALS Account # / Quote #:	WT2022GHDL1000018
Job #:	11210029
PO / AFE:	735-009459
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#:
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only):

ALS Contact: Rick H

Sampler: K. Clogherm

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	VOC, F1-F4	Dissolved Metals (Field Filter)	Dissolved Mercury (Field Filter)	Dissolved CrVI (Field Filter)	Total Cyanide	Total Oil and Grease	Chloride	SVOCs (including PAHs)	Alkalinity/CL/Nitrite/Nitrate,Sulfate	Ammonia-N,TP,Total Phenolics	TDS	TKN	Hardness	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	MW3	10-Sept-24	9 45	Water	16	X	X	X	X	X	X	X	X	X	X	X	X	X			
	DUP	↓	945	↓	↓	X	X	X	X	X	X	X	X	X	X	X	X	X			
	MW4-23	↓	11 15	↓	↓	X	X	X	X	X	X	X	X	X	X	X	X	X			
	MW5-23	↓	12 00	↓	↓	X	X	X	X	X	X	X	X	X	X	X	X	X			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☑ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			5.1°C		

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: [redacted]	Date: Sept 10/24	Time: 1315	Received by:	Date:	Time:	Received by: [redacted]	Date: 10/9/24	Time: 1420

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AGG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

OR-72 / N-207 / MM-083 / CN-113 / SC-935 / B-922 / SC 746 / VW-017 / OGG-842

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2431970**	Page	: 1 of 46
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 25-Oct-2024 15:15
PO	: 735-009459	Date Analysis Commenced	: 26-Oct-2024
C-O-C number	: ----	Issue Date	: 01-Nov-2024 17:22
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Brooke Miller	Laboratory Analyst	Inorganics, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
BODL	*Limit of Reporting for BOD was increased to account for the largest volume of sample tested.*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
DLQ	*Detection Limit raised due to co-eluting interference. Mass Spectrometry qualifier ion ratio did not meet acceptance criteria.*
DLUI	*Detection Limit Raised: Unknown interference generated an apparent false positive test result.*
RRV	*Reported result verified by repeat analysis.*
SFPR	*Suspected False Positive Result, based on detection in Lab Blanks and/or Field Blanks, or other known issues.*

Analytical Results

WT2431970-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 25-Oct-2024 09:25

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients									
Chloride	16887-00-6	11.5	DLDS,	2.50	mg/L	E235.Cl/WT	30-Oct-2024	31-Oct-2024	1740107
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	29-Oct-2024	29-Oct-2024	1734913
Dissolved Metals									
Aluminum, dissolved	7429-90-5	<0.0100	DLHC,	0.0100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Antimony, dissolved	7440-36-0	<0.00100	DLHC,	0.00100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Arsenic, dissolved	7440-38-2	0.00130	DLHC,	0.00100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Barium, dissolved	7440-39-3	0.116	DLHC,	0.00100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Beryllium, dissolved	7440-41-7	<0.000200	DLHC,	0.000200	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Bismuth, dissolved	7440-69-9	<0.000500	DLHC,	0.000500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Boron, dissolved	7440-42-8	0.117	DLHC,	0.100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cadmium, dissolved	7440-43-9	0.000267	DLHC,	0.0000500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Calcium, dissolved	7440-70-2	123	DLHC,	0.500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cesium, dissolved	7440-46-2	<0.000100	DLHC,	0.000100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Chromium, dissolved	7440-47-3	<0.00500	DLHC,	0.00500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cobalt, dissolved	7440-48-4	<0.00100	DLHC,	0.00100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Copper, dissolved	7440-50-8	0.0243	DLHC,	0.00200	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Iron, dissolved	7439-89-6	<0.100	DLHC,	0.100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lead, dissolved	7439-92-1	<0.000500	DLHC,	0.000500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lithium, dissolved	7439-93-2	<0.0100	DLHC,	0.0100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Magnesium, dissolved	7439-95-4	52.0	DLHC,	0.0500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Manganese, dissolved	7439-96-5	0.0982	DLHC,	0.00100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	28-Oct-2024	29-Oct-2024	1735137
Molybdenum, dissolved	7439-98-7	<0.000500	DLHC,	0.000500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Nickel, dissolved	7440-02-0	0.00789	DLHC,	0.00500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Phosphorus, dissolved	7723-14-0	<0.500	DLHC,	0.500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Potassium, dissolved	7440-09-7	83.4	DLHC,	0.500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Rubidium, dissolved	7440-17-7	0.0157	DLHC,	0.00200	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Selenium, dissolved	7782-49-2	<0.000500	DLHC,	0.000500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silicon, dissolved	7440-21-3	4.70	DLHC,	0.500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silver, dissolved	7440-22-4	<0.000100	DLHC,	0.000100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sodium, dissolved	7440-23-5	10.7	DLHC,	0.500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Strontium, dissolved	7440-24-6	0.177	DLHC,	0.00200	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sulfur, dissolved	7704-34-9	12.0	DLHC,	5.00	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tellurium, dissolved	13494-80-9	<0.00200	DLHC,	0.00200	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thallium, dissolved	7440-28-0	0.000127	DLHC,	0.000100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thorium, dissolved	7440-29-1	<0.00100	DLHC,	0.00100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tin, dissolved	7440-31-5	<0.00100	DLHC,	0.00100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Titanium, dissolved	7440-32-6	<0.00300	DLHC,	0.00300	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tungsten, dissolved	7440-33-7	<0.00100	DLHC,	0.00100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Uranium, dissolved	7440-61-1	0.000655	DLHC,	0.000100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Vanadium, dissolved	7440-62-2	<0.00500	DLHC,	0.00500	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zinc, dissolved	7440-66-6	0.0479	DLHC,	0.0100	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zirconium, dissolved	7440-67-7	<0.00300	DLHC,	0.00300	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Dissolved mercury filtration location	----	Field		-	-	EP509/WT	-	28-Oct-2024	1735137

Analytical Results

WT2431970-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 25-Oct-2024 09:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	29-Oct-2024	1737574
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Oct-2024	1733619
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	27-Oct-2024	29-Oct-2024	1734449
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889

Analytical Results

WT2431970-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 25-Oct-2024 09:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	31-Oct-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	31-Oct-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	29-Oct-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	29-Oct-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.9	1.0	%	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Dichlorotoluene, 3,4-	95-75-0	90.8	1.0	%	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	97.5	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Difluorobenzene, 1,4-	540-36-3	102	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(g,h,i)perylene	191-24-2	0.015	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	109	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene-d8	1146-65-2	83.6	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene-d10	1517-22-2	96.2	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phthalate Esters								

Analytical Results

WT2431970-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW2-20
Client sampling date / time: 25-Oct-2024 09:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	83.2	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Nitrobenzene-d5	4165-60-0	101	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Terphenyl-d14, p-	1718-51-0	88.9	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	89.1	0.50	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2431970-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 25-Oct-2024 09:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.73	0.50	mg/L	E235.Cl/WT	30-Oct-2024	31-Oct-2024	1740107
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	29-Oct-2024	29-Oct-2024	1734913
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0029	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574

Analytical Results

WT2431970-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 25-Oct-2024 09:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Arsenic, dissolved	7440-38-2	0.00572	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Barium, dissolved	7440-39-3	0.0714	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Calcium, dissolved	7440-70-2	46.1	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Iron, dissolved	7439-89-6	0.211	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lithium, dissolved	7439-93-2	0.0028	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Magnesium, dissolved	7439-95-4	26.7	0.0050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Manganese, dissolved	7439-96-5	0.00736	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	28-Oct-2024	29-Oct-2024	1735137
Molybdenum, dissolved	7439-98-7	0.000674	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Potassium, dissolved	7440-09-7	1.03	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Rubidium, dissolved	7440-17-7	0.00036	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Selenium, dissolved	7782-49-2	0.000200	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silicon, dissolved	7440-21-3	7.31	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sodium, dissolved	7440-23-5	5.86	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Strontium, dissolved	7440-24-6	0.365	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sulfur, dissolved	7704-34-9	7.13	0.50	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Uranium, dissolved	7440-61-1	0.000522	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	28-Oct-2024	1735137
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	29-Oct-2024	1737574
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Oct-2024	1733619
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	27-Oct-2024	29-Oct-2024	1734449

Analytical Results

WT2431970-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: APW1
Client sampling date / time: 25-Oct-2024 09:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890

Analytical Results

WT2431970-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: APW1

Client sampling date / time: 25-Oct-2024 09:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	31-Oct-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	31-Oct-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	29-Oct-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	29-Oct-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	81.2	1.0	%	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Dichlorotoluene, 3,4-	95-75-0	108	1.0	%	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	99.1	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Difluorobenzene, 1,4-	540-36-3	100	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	109	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene-d8	1146-65-2	82.0	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene-d10	1517-22-2	95.4	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Analytical Results

WT2431970-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: APW1

Client sampling date / time: 25-Oct-2024 09:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	84.0	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Nitrobenzene-d5	4165-60-0	97.6	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Terphenyl-d14, p-	1718-51-0	88.5	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	86.6	0.50	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2431970-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 25-Oct-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	30.4	0.50	mg/L	E235.Cl/WT	30-Oct-2024	31-Oct-2024	1740107
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	29-Oct-2024	29-Oct-2024	1734913
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0059	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Arsenic, dissolved	7440-38-2	0.00012	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Barium, dissolved	7440-39-3	0.0601	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Boron, dissolved	7440-42-8	0.023	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574

Analytical Results

WT2431970-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 25-Oct-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Cadmium, dissolved	7440-43-9	0.0000566	0.0000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Calcium, dissolved	7440-70-2	106	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Copper, dissolved	7440-50-8	0.00190	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Iron, dissolved	7439-89-6	0.044	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lithium, dissolved	7439-93-2	0.0011	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Magnesium, dissolved	7439-95-4	27.3	0.0050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Manganese, dissolved	7439-96-5	0.00280	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	28-Oct-2024	29-Oct-2024	1735137
Molybdenum, dissolved	7439-98-7	0.000313	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Potassium, dissolved	7440-09-7	10.5	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Rubidium, dissolved	7440-17-7	0.00063	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Selenium, dissolved	7782-49-2	0.000248	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silicon, dissolved	7440-21-3	4.40	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sodium, dissolved	7440-23-5	23.1	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Strontium, dissolved	7440-24-6	0.138	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sulfur, dissolved	7704-34-9	6.88	0.50	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thallium, dissolved	7440-28-0	0.000015	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Titanium, dissolved	7440-32-6	0.00052	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tungsten, dissolved	7440-33-7	0.00014	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Uranium, dissolved	7440-61-1	0.000316	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zinc, dissolved	7440-66-6	0.0164	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	28-Oct-2024	1735137
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	29-Oct-2024	1737574
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Oct-2024	1733619
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	27-Oct-2024	29-Oct-2024	1734449
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889

Analytical Results

WT2431970-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 25-Oct-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	31-Oct-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	31-Oct-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744

Analytical Results

WT2431970-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW1-20
Client sampling date / time: 25-Oct-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	29-Oct-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	29-Oct-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.9	1.0	%	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Dichlorotoluene, 3,4-	95-75-0	83.6	1.0	%	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	96.4	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Difluorobenzene, 1,4-	540-36-3	101	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(g,h,i)perylene	191-24-2	0.041	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Indeno(1,2,3-c,d)pyrene	193-39-5	0.028	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	109	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene-d8	1146-65-2	83.2	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene-d10	1517-22-2	96.2	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Analytical Results

WT2431970-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW1-20

Client sampling date / time: 25-Oct-2024 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics								
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	81.5	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Nitrobenzene-d5	4165-60-0	109	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Terphenyl-d14, p-	1718-51-0	86.4	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	89.0	0.50	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2431970-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AGW1

Client sampling date / time: 25-Oct-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	22.1	0.50	mg/L	E235.Cl/WT	30-Oct-2024	31-Oct-2024	1740107
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	29-Oct-2024	29-Oct-2024	1734913
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Arsenic, dissolved	7440-38-2	0.00400	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Barium, dissolved	7440-39-3	0.0573	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Calcium, dissolved	7440-70-2	72.2	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574

Analytical Results

WT2431970-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 25-Oct-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Copper, dissolved	7440-50-8	0.00095	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Iron, dissolved	7439-89-6	0.913	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lithium, dissolved	7439-93-2	0.0037	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Magnesium, dissolved	7439-95-4	35.2	0.0050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Manganese, dissolved	7439-96-5	0.0185	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	28-Oct-2024	29-Oct-2024	1735137
Molybdenum, dissolved	7439-98-7	0.000423	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Potassium, dissolved	7440-09-7	1.02	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Rubidium, dissolved	7440-17-7	0.00021	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silicon, dissolved	7440-21-3	8.55	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sodium, dissolved	7440-23-5	7.01	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Strontium, dissolved	7440-24-6	0.144	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sulfur, dissolved	7704-34-9	14.7	0.50	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Uranium, dissolved	7440-61-1	0.000184	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zinc, dissolved	7440-66-6	0.0342	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	28-Oct-2024	1735137
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	29-Oct-2024	1737574
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Oct-2024	1733619
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	27-Oct-2024	29-Oct-2024	1734449
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889

Analytical Results

WT2431970-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 25-Oct-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	31-Oct-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	31-Oct-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	30-Oct-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	29-Oct-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	78.8	1.0	%	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744

Analytical Results

WT2431970-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: AGW1
Client sampling date / time: 25-Oct-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	91.0	1.0	%	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	97.4	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Difluorobenzene, 1,4-	540-36-3	99.2	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	110	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene-d8	1146-65-2	82.8	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene-d10	1517-22-2	96.2	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	89.4	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Nitrobenzene-d5	4165-60-0	104	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Analytical Results

WT2431970-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: AGW1

Client sampling date / time: 25-Oct-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Semi-Volatile Organics Surrogates								
Terphenyl-d14, p-	1718-51-0	90.2	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	89.7	0.50	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2431970-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 25-Oct-2024 12:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	9.02	0.50	mg/L	E235.Cl/WT	30-Oct-2024	31-Oct-2024	1740107
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	29-Oct-2024	29-Oct-2024	1734913
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Arsenic, dissolved	7440-38-2	0.00061	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Barium, dissolved	7440-39-3	0.0274	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cadmium, dissolved	7440-43-9	0.0000548	0.0000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Calcium, dissolved	7440-70-2	59.0	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cobalt, dissolved	7440-48-4	0.00114	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Copper, dissolved	7440-50-8	0.00093	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Magnesium, dissolved	7439-95-4	21.9	0.0050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574

Analytical Results

WT2431970-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 25-Oct-2024 12:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Manganese, dissolved	7439-96-5	0.531	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	28-Oct-2024	29-Oct-2024	1735137
Molybdenum, dissolved	7439-98-7	0.000835	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Nickel, dissolved	7440-02-0	0.00271	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Potassium, dissolved	7440-09-7	2.68	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Rubidium, dissolved	7440-17-7	0.00064	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silicon, dissolved	7440-21-3	3.58	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sodium, dissolved	7440-23-5	2.75	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Strontium, dissolved	7440-24-6	0.0962	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sulfur, dissolved	7704-34-9	0.72	0.50	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thallium, dissolved	7440-28-0	0.000046	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Uranium, dissolved	7440-61-1	0.000200	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zinc, dissolved	7440-66-6	0.0098	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	28-Oct-2024	1735137
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	29-Oct-2024	1737574
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Oct-2024	1733619
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	27-Oct-2024	29-Oct-2024	1734449
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889

Analytical Results

WT2431970-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 25-Oct-2024 12:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	31-Oct-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	31-Oct-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	29-Oct-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	29-Oct-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.4	1.0	%	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Dichlorotoluene, 3,4-	95-75-0	102	1.0	%	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	97.9	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Difluorobenzene, 1,4-	540-36-3	93.9	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2431970-005

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH213

Client sampling date / time: 25-Oct-2024 12:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	109	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene-d8	1146-65-2	80.6	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene-d10	1517-22-2	93.9	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	87.2	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Nitrobenzene-d5	4165-60-0	102	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Terphenyl-d14, p-	1718-51-0	91.4	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Analytical Results

WT2431970-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH213
Client sampling date / time: 25-Oct-2024 12:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	90.8	0.50	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2431970-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 25-Oct-2024 12:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	4.32	0.50	mg/L	E235.Cl/WT	30-Oct-2024	31-Oct-2024	1740107
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	29-Oct-2024	29-Oct-2024	1734913
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0017	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Arsenic, dissolved	7440-38-2	0.00022	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Barium, dissolved	7440-39-3	0.163	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Boron, dissolved	7440-42-8	0.016	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cadmium, dissolved	7440-43-9	0.0000308	0.0000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Calcium, dissolved	7440-70-2	119	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Copper, dissolved	7440-50-8	0.00058	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lithium, dissolved	7439-93-2	0.0028	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Magnesium, dissolved	7439-95-4	50.3	0.0050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Manganese, dissolved	7439-96-5	0.00022	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	28-Oct-2024	29-Oct-2024	1735137
Molybdenum, dissolved	7439-98-7	0.000239	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574

Analytical Results

WT2431970-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 25-Oct-2024 12:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Potassium, dissolved	7440-09-7	1.64	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Rubidium, dissolved	7440-17-7	0.00104	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Selenium, dissolved	7782-49-2	0.000427	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silicon, dissolved	7440-21-3	7.46	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sodium, dissolved	7440-23-5	4.12	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Strontium, dissolved	7440-24-6	0.164	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sulfur, dissolved	7704-34-9	13.9	0.50	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Uranium, dissolved	7440-61-1	0.000911	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zinc, dissolved	7440-66-6	0.0114	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	28-Oct-2024	1735137
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	29-Oct-2024	1737574
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	26-Oct-2024	1733619
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	27-Oct-2024	29-Oct-2024	1734449
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889

Analytical Results

WT2431970-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: BH219
Client sampling date / time: 25-Oct-2024 12:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	31-Oct-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	31-Oct-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	30-Oct-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	29-Oct-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	78.6	1.0	%	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Dichlorotoluene, 3,4-	95-75-0	80.8	1.0	%	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	96.2	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Difluorobenzene, 1,4-	540-36-3	100	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743

Analytical Results

WT2431970-006

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 25-Oct-2024 12:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1-	90-12-0	0.018	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1+2-	----	0.040	0.015	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 2-	91-57-6	0.022	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	109	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene-d8	1146-65-2	81.6	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene-d10	1517-22-2	95.3	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	78.7	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Nitrobenzene-d5	4165-60-0	86.5	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Terphenyl-d14, p-	1718-51-0	86.4	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Analytical Results

WT2431970-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: BH219

Client sampling date / time: 25-Oct-2024 12:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Non-Chlorinated Phenolics								
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	88.7	0.50	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2431970-007

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 25-Oct-2024 13:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	<0.50	0.50	mg/L	E235.Cl/WT	30-Oct-2024	31-Oct-2024	1740107
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0050	0.0050	mg/L	E333/WT	29-Oct-2024	29-Oct-2024	1734913
Dissolved Metals								
Aluminum, dissolved	7429-90-5	<0.0010	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Arsenic, dissolved	7440-38-2	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Barium, dissolved	7440-39-3	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Boron, dissolved	7440-42-8	<0.010	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Calcium, dissolved	7440-70-2	<0.050	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Copper, dissolved	7440-50-8	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lithium, dissolved	7439-93-2	<0.0010	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Magnesium, dissolved	7439-95-4	<0.0050	0.0050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Manganese, dissolved	7439-96-5	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Mercury, dissolved	7439-97-6	<0.0000050	0.0000050	mg/L	E509/WT	28-Oct-2024	29-Oct-2024	1735137
Molybdenum, dissolved	7439-98-7	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Potassium, dissolved	7440-09-7	<0.050	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Rubidium, dissolved	7440-17-7	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silicon, dissolved	7440-21-3	<0.050	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574

Analytical Results

WT2431970-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 25-Oct-2024 13:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sodium, dissolved	7440-23-5	<0.050	0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Strontium, dissolved	7440-24-6	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sulfur, dissolved	7704-34-9	<0.50	0.50	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tin, dissolved	7440-31-5	0.00013	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Dissolved mercury filtration location	----	N/A	-	-	EP509/WT	-	28-Oct-2024	1735137
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	29-Oct-2024	1737574
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	28-Oct-2024	1735932
Aggregate Organics								
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	27-Oct-2024	29-Oct-2024	1734449
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloromethane	75-09-2	<11.0 SFPR,	11.0	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889

Analytical Results

WT2431970-007

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: FB

Client sampling date / time: 25-Oct-2024 13:50

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Hexane, n-	110-54-3	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889
Methyl ethyl ketone [MEK]	78-93-3	<20		20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl isobutyl ketone [MIBK]	108-10-1	<20		20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl-tert-butyl ether [MTBE]	1634-04-4	0.55	RRV.	0.50	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889
Styrene	100-42-5	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethylene	127-18-4	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Toluene	108-88-3	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,1-	71-55-6	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,2-	79-00-5	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethylene	79-01-6	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichlorofluoromethane	75-69-4	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Vinyl chloride	75-01-4	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, m+p-	179601-23-1	<0.40		0.40	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, o-	95-47-6	<0.30		0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
BTEX, total	----	<1.0		1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hydrocarbons									
F1 (C6-C10)	----	<25		25	µg/L	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F2-Naphthalene	----	<100		100	µg/L	EC600SG/WT	-	31-Oct-2024	-
F3 (C16-C34)	----	<250		250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F3-PAH	n/a	<250		250	µg/L	EC600SG/WT	-	31-Oct-2024	-
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	29-Oct-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370		370	µg/L	EC581SG/WT	-	29-Oct-2024	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	74.8		1.0	%	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Dichlorotoluene, 3,4-	95-75-0	102		1.0	%	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	95.5		1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Difluorobenzene, 1,4-	540-36-3	99.9		1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	<0.010		0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Acenaphthylene	208-96-8	<0.010		0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Anthracene	120-12-7	<0.010		0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benz(a)anthracene	56-55-3	<0.010		0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(a)pyrene	50-32-8	<0.0050		0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(b+j)fluoranthene	n/a	<0.010		0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(g,h,i)perylene	191-24-2	<0.010		0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(k)fluoranthene	207-08-9	<0.010		0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Chrysene	218-01-9	<0.010		0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Dibenz(a,h)anthracene	53-70-3	<0.0050		0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743

Analytical Results

WT2431970-007

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: FB
Client sampling date / time: 25-Oct-2024 13:50

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	108	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene-d8	1146-65-2	79.4	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene-d10	1517-22-2	93.0	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	89.0	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Nitrobenzene-d5	4165-60-0	104	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Terphenyl-d14, p-	1718-51-0	90.0	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	86.3	0.50	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2431970-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 25-Oct-2024 11:30

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Hardness (as CaCO3), dissolved	----	454		0.50	mg/L	EC100/WT	-	30-Oct-2024	-
Solids, total dissolved [TDS]	----	535	DLDS,	20	mg/L	E162/WT	-	29-Oct-2024	1737292
Alkalinity, total (as CaCO3)	----	6540		50.0	mg/L	E290/WT	29-Oct-2024	31-Oct-2024	1738505
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	0.0242		0.0050	mg/L	E298/WT	28-Oct-2024	30-Oct-2024	1735670
Chloride	16887-00-6	9.61		0.50	mg/L	E235.Cl/WT	29-Oct-2024	30-Oct-2024	1738509
Kjeldahl nitrogen, total [TKN]	----	0.365		0.050	mg/L	E318/WT	31-Oct-2024	31-Oct-2024	1735669
Nitrate (as N)	14797-55-8	0.748		0.020	mg/L	E235.NO3/WT	29-Oct-2024	30-Oct-2024	1738506
Nitrite (as N)	14797-65-0	<0.010		0.010	mg/L	E235.NO2/WT	29-Oct-2024	30-Oct-2024	1738507
Phosphorus, total	7723-14-0	6.13		0.200	mg/L	E372-U/WT	29-Oct-2024	29-Oct-2024	1735671
Sulfate (as SO4)	14808-79-8	22.3		0.30	mg/L	E235.SO4/WT	29-Oct-2024	30-Oct-2024	1738508
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	29-Oct-2024	29-Oct-2024	1734913
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	2.23		0.50	mg/L	E358-L/WT	29-Oct-2024	31-Oct-2024	1737232
Dissolved Metals									
Aluminum, dissolved	7429-90-5	<0.0010		0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Antimony, dissolved	7440-36-0	<0.00010		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Arsenic, dissolved	7440-38-2	0.00035		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Barium, dissolved	7440-39-3	0.0550		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Beryllium, dissolved	7440-41-7	<0.000020		0.000020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Bismuth, dissolved	7440-69-9	<0.000050		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Boron, dissolved	7440-42-8	0.011		0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cadmium, dissolved	7440-43-9	<0.0000050		0.0000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Calcium, dissolved	7440-70-2	107		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cesium, dissolved	7440-46-2	<0.000010		0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Chromium, dissolved	7440-47-3	<0.00050		0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cobalt, dissolved	7440-48-4	<0.00010		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Copper, dissolved	7440-50-8	0.00085		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Iron, dissolved	7439-89-6	<0.010		0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lead, dissolved	7439-92-1	<0.000050		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lithium, dissolved	7439-93-2	0.0035		0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Magnesium, dissolved	7439-95-4	45.4		0.0050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Manganese, dissolved	7439-96-5	0.0105		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	28-Oct-2024	29-Oct-2024	1735137
Molybdenum, dissolved	7439-98-7	0.000307		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Nickel, dissolved	7440-02-0	<0.00050		0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Phosphorus, dissolved	7723-14-0	<0.050		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Potassium, dissolved	7440-09-7	1.21		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Rubidium, dissolved	7440-17-7	0.00088		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Selenium, dissolved	7782-49-2	0.000078		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silicon, dissolved	7440-21-3	7.43		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silver, dissolved	7440-22-4	<0.000010		0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sodium, dissolved	7440-23-5	5.43		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Strontium, dissolved	7440-24-6	0.155		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574

Analytical Results

WT2431970-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 25-Oct-2024 11:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	7.55	0.50	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thallium, dissolved	7440-28-0	0.000011	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Uranium, dissolved	7440-61-1	0.00116	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Vanadium, dissolved	7440-62-2	0.00051	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	28-Oct-2024	1735137
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	29-Oct-2024	1737574
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	28-Oct-2024	1735932
Aggregate Organics								
Biochemical oxygen demand [BOD]	----	<3.0 BODL	3.0	mg/L	E550/WT	-	27-Oct-2024	1734670
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	27-Oct-2024	29-Oct-2024	1734449
Phenols, total (4AAP)	----	<0.0010	0.0010	mg/L	E562/EO	29-Oct-2024	29-Oct-2024	1737958
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889

Analytical Results

WT2431970-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 25-Oct-2024 11:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	31-Oct-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	31-Oct-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	30-Oct-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	29-Oct-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	75.5	1.0	%	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Dichlorotoluene, 3,4-	95-75-0	77.1	1.0	%	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	96.5	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Difluorobenzene, 1,4-	540-36-3	100	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(b+j)fluoranthene	n/a	0.021	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(g,h,i)perylene	191-24-2	0.012	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Chrysene	218-01-9	0.017	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743

Analytical Results

WT2431970-008

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW3-20
Client sampling date / time: 25-Oct-2024 11:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	0.019	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Indeno(1,2,3-c,d)pyrene	193-39-5	0.012	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1-	90-12-0	0.028	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1+2-	----	0.062	0.015	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 2-	91-57-6	0.034	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Pyrene	129-00-0	0.055	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	106	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene-d8	1146-65-2	81.1	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene-d10	1517-22-2	96.0	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	78.6	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Nitrobenzene-d5	4165-60-0	100	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Terphenyl-d14, p-	1718-51-0	85.4	1.0	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	30-Oct-2024	30-Oct-2024	1739055
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	88.1	0.50	%	E625A/WT	30-Oct-2024	30-Oct-2024	1739055

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2431970-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 25-Oct-2024 13:20

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Hardness (as CaCO3), dissolved	----	314		0.50	mg/L	EC100/WT	-	30-Oct-2024	-
Solids, total dissolved [TDS]	----	376	DLDS,	20	mg/L	E162/WT	-	29-Oct-2024	1737292
Alkalinity, total (as CaCO3)	----	2640		50.0	mg/L	E290/WT	29-Oct-2024	31-Oct-2024	1738505
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	0.0193		0.0050	mg/L	E298/WT	28-Oct-2024	30-Oct-2024	1735670
Chloride	16887-00-6	11.0		0.50	mg/L	E235.Cl/WT	29-Oct-2024	30-Oct-2024	1738509
Kjeldahl nitrogen, total [TKN]	----	0.748		0.050	mg/L	E318/WT	31-Oct-2024	31-Oct-2024	1735669
Nitrate (as N)	14797-55-8	1.78		0.020	mg/L	E235.NO3/WT	29-Oct-2024	30-Oct-2024	1738506
Nitrite (as N)	14797-65-0	<0.010		0.010	mg/L	E235.NO2/WT	29-Oct-2024	30-Oct-2024	1738507
Phosphorus, total	7723-14-0	9.40		0.200	mg/L	E372-U/WT	29-Oct-2024	29-Oct-2024	1735671
Sulfate (as SO4)	14808-79-8	13.5		0.30	mg/L	E235.SO4/WT	29-Oct-2024	30-Oct-2024	1738508
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	29-Oct-2024	29-Oct-2024	1734913
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	1.69		0.50	mg/L	E358-L/WT	29-Oct-2024	31-Oct-2024	1737232
Dissolved Metals									
Aluminum, dissolved	7429-90-5	0.0154		0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Antimony, dissolved	7440-36-0	<0.00010		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Arsenic, dissolved	7440-38-2	0.00066		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Barium, dissolved	7440-39-3	0.0652		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Beryllium, dissolved	7440-41-7	<0.000020		0.000020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Bismuth, dissolved	7440-69-9	<0.000050		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Boron, dissolved	7440-42-8	<0.010		0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cadmium, dissolved	7440-43-9	<0.0000050		0.0000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Calcium, dissolved	7440-70-2	74.1		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cesium, dissolved	7440-46-2	<0.000010		0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Chromium, dissolved	7440-47-3	0.00116		0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cobalt, dissolved	7440-48-4	<0.00010		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Copper, dissolved	7440-50-8	0.00079		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Iron, dissolved	7439-89-6	0.019		0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lead, dissolved	7439-92-1	0.000071		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lithium, dissolved	7439-93-2	<0.0010		0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Magnesium, dissolved	7439-95-4	31.2		0.0050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Manganese, dissolved	7439-96-5	0.00377		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	28-Oct-2024	29-Oct-2024	1735137
Molybdenum, dissolved	7439-98-7	0.000721		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Nickel, dissolved	7440-02-0	<0.00050		0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Phosphorus, dissolved	7723-14-0	<0.050		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Potassium, dissolved	7440-09-7	2.20		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Rubidium, dissolved	7440-17-7	0.00031		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Selenium, dissolved	7782-49-2	0.000367		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silicon, dissolved	7440-21-3	6.42		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silver, dissolved	7440-22-4	<0.000010		0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sodium, dissolved	7440-23-5	4.02		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Strontium, dissolved	7440-24-6	0.113		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574

Analytical Results

WT2431970-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 25-Oct-2024 13:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	4.71	0.50	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Titanium, dissolved	7440-32-6	<0.00060 DLUI,	0.00060	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Uranium, dissolved	7440-61-1	0.000626	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Vanadium, dissolved	7440-62-2	0.00086	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zinc, dissolved	7440-66-6	0.0021	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	28-Oct-2024	1735137
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	29-Oct-2024	1737574
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00088	0.00050	mg/L	E532A/WT	-	28-Oct-2024	1735932
Aggregate Organics								
Biochemical oxygen demand [BOD]	----	<3.0 BODL	3.0	mg/L	E550/WT	-	27-Oct-2024	1734670
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	27-Oct-2024	29-Oct-2024	1734449
Phenols, total (4AAP)	----	<0.0010	0.0010	mg/L	E562/EO	29-Oct-2024	29-Oct-2024	1737958
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889

Analytical Results

WT2431970-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 25-Oct-2024 13:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<1.00 SFPR	1.00	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Toluene	108-88-3	0.52	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	31-Oct-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	31-Oct-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	30-Oct-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	29-Oct-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	74.0	1.0	%	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735744
Dichlorotoluene, 3,4-	95-75-0	81.2	1.0	%	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	85.8	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Difluorobenzene, 1,4-	540-36-3	114	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743

Analytical Results

WT2431970-009

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW4-23
Client sampling date / time: 25-Oct-2024 13:20

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1-	90-12-0	0.028	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 1+2-	----	0.062	0.015	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Methylnaphthalene, 2-	91-57-6	0.034	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Pyrene	129-00-0	0.014	0.010	µg/L	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	108	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Naphthalene-d8	1146-65-2	79.7	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phenanthrene-d10	1517-22-2	93.9	0.1	%	E641A/WT	28-Oct-2024	29-Oct-2024	1735743
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	72.4	1.0	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Nitrobenzene-d5	4165-60-0	87.9	1.0	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Terphenyl-d14, p-	1718-51-0	89.9	1.0	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	77.4	0.50	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2431970-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 25-Oct-2024 13:40

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Hardness (as CaCO3), dissolved	----	263		0.50	mg/L	EC100/WT	-	30-Oct-2024	-
Solids, total dissolved [TDS]	----	336	DLDS,	20	mg/L	E162/WT	-	29-Oct-2024	1737292
Alkalinity, total (as CaCO3)	----	2220		10.0	mg/L	E290/WT	29-Oct-2024	30-Oct-2024	1738505
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	0.0211		0.0050	mg/L	E298/WT	28-Oct-2024	29-Oct-2024	1735670
Chloride	16887-00-6	6.48		0.50	mg/L	E235.Cl/WT	29-Oct-2024	30-Oct-2024	1738509
Kjeldahl nitrogen, total [TKN]	----	2.85		0.500	mg/L	E318/WT	31-Oct-2024	31-Oct-2024	1735669
Nitrate (as N)	14797-55-8	1.24		0.020	mg/L	E235.NO3/WT	29-Oct-2024	30-Oct-2024	1738506
Nitrite (as N)	14797-65-0	<0.010		0.010	mg/L	E235.NO2/WT	29-Oct-2024	30-Oct-2024	1738507
Phosphorus, total	7723-14-0	9.42		0.200	mg/L	E372-U/WT	29-Oct-2024	29-Oct-2024	1735671
Sulfate (as SO4)	14808-79-8	4.41		0.30	mg/L	E235.SO4/WT	29-Oct-2024	30-Oct-2024	1738508
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	29-Oct-2024	29-Oct-2024	1734913
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	6.85		0.50	mg/L	E358-L/WT	29-Oct-2024	31-Oct-2024	1737232
Dissolved Metals									
Aluminum, dissolved	7429-90-5	0.0037		0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Antimony, dissolved	7440-36-0	<0.00010		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Arsenic, dissolved	7440-38-2	0.00024		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Barium, dissolved	7440-39-3	0.0408		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Beryllium, dissolved	7440-41-7	<0.000020		0.000020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Bismuth, dissolved	7440-69-9	<0.000050		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Boron, dissolved	7440-42-8	<0.010		0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cadmium, dissolved	7440-43-9	0.0000055		0.0000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Calcium, dissolved	7440-70-2	70.9		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cesium, dissolved	7440-46-2	<0.000010		0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Chromium, dissolved	7440-47-3	0.00179		0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cobalt, dissolved	7440-48-4	<0.00010		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Copper, dissolved	7440-50-8	0.00066		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Iron, dissolved	7439-89-6	<0.010		0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lead, dissolved	7439-92-1	<0.000050		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lithium, dissolved	7439-93-2	0.0011		0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Magnesium, dissolved	7439-95-4	20.9		0.0050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Manganese, dissolved	7439-96-5	0.0124		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	28-Oct-2024	29-Oct-2024	1735137
Molybdenum, dissolved	7439-98-7	0.000757		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Nickel, dissolved	7440-02-0	<0.00050		0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Phosphorus, dissolved	7723-14-0	<0.050		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Potassium, dissolved	7440-09-7	1.40		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Rubidium, dissolved	7440-17-7	0.00114		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Selenium, dissolved	7782-49-2	0.000289		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silicon, dissolved	7440-21-3	5.55		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silver, dissolved	7440-22-4	<0.000010		0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sodium, dissolved	7440-23-5	6.22		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Strontium, dissolved	7440-24-6	0.108		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574

Analytical Results

WT2431970-010

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: MW5-23

Client sampling date / time: 25-Oct-2024 13:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	1.43	0.50	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thallium, dissolved	7440-28-0	0.000011	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Uranium, dissolved	7440-61-1	0.000340	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zinc, dissolved	7440-66-6	0.0029	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	28-Oct-2024	1735137
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	29-Oct-2024	1737574
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	0.00175	0.00050	mg/L	E532A/WT	-	28-Oct-2024	1735932
Aggregate Organics								
Biochemical oxygen demand [BOD]	----	3.8	2.0	mg/L	E550/WT	-	27-Oct-2024	1734670
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	27-Oct-2024	29-Oct-2024	1734449
Phenols, total (4AAP)	----	<0.0010	0.0010	mg/L	E562/EO	29-Oct-2024	29-Oct-2024	1737958
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889

Analytical Results

WT2431970-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 25-Oct-2024 13:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735697
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	01-Nov-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735697
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	01-Nov-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735697
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	29-Oct-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	29-Oct-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735697
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.1	1.0	%	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735697
Dichlorotoluene, 3,4-	95-75-0	83.1	1.0	%	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	95.1	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Difluorobenzene, 1,4-	540-36-3	94.7	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698

Analytical Results

WT2431970-010

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: MW5-23
Client sampling date / time: 25-Oct-2024 13:40

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Methylnaphthalene, 2-	91-57-6	0.011	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	109	0.1	%	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Naphthalene-d8	1146-65-2	81.7	0.1	%	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Phenanthrene-d10	1517-22-2	95.3	0.1	%	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	77.1	1.0	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Nitrobenzene-d5	4165-60-0	83.1	1.0	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Terphenyl-d14, p-	1718-51-0	96.9	1.0	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Phenol	108-95-2	<1.50 DLQ	1.50	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	69.8	0.50	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2431970-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 25-Oct-2024 11:30

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Hardness (as CaCO3), dissolved	----	426		0.50	mg/L	EC100/WT	-	30-Oct-2024	-
Solids, total dissolved [TDS]	----	544	DLDS,	20	mg/L	E162/WT	-	29-Oct-2024	1737292
Alkalinity, total (as CaCO3)	----	2040		10.0	mg/L	E290/WT	29-Oct-2024	30-Oct-2024	1738505
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	0.0149		0.0050	mg/L	E298/WT	28-Oct-2024	29-Oct-2024	1735670
Chloride	16887-00-6	9.02		0.50	mg/L	E235.Cl/WT	29-Oct-2024	30-Oct-2024	1738509
Kjeldahl nitrogen, total [TKN]	----	2.63		0.500	mg/L	E318/WT	31-Oct-2024	31-Oct-2024	1735669
Nitrate (as N)	14797-55-8	0.666		0.020	mg/L	E235.NO3/WT	29-Oct-2024	30-Oct-2024	1738506
Nitrite (as N)	14797-65-0	<0.010		0.010	mg/L	E235.NO2/WT	29-Oct-2024	30-Oct-2024	1738507
Phosphorus, total	7723-14-0	2.86		0.200	mg/L	E372-U/WT	29-Oct-2024	29-Oct-2024	1735671
Sulfate (as SO4)	14808-79-8	22.6		0.30	mg/L	E235.SO4/WT	29-Oct-2024	30-Oct-2024	1738508
Cyanides									
Cyanide, strong acid dissociable (Total)	----	<0.0050		0.0050	mg/L	E333/WT	29-Oct-2024	29-Oct-2024	1734913
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	2.38		0.50	mg/L	E358-L/WT	29-Oct-2024	31-Oct-2024	1737232
Dissolved Metals									
Aluminum, dissolved	7429-90-5	0.0017		0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Antimony, dissolved	7440-36-0	0.00013		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Arsenic, dissolved	7440-38-2	0.00058		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Barium, dissolved	7440-39-3	0.0508		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Beryllium, dissolved	7440-41-7	<0.000020		0.000020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Bismuth, dissolved	7440-69-9	<0.000050		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Boron, dissolved	7440-42-8	0.011		0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cadmium, dissolved	7440-43-9	<0.0000050		0.0000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Calcium, dissolved	7440-70-2	97.8		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cesium, dissolved	7440-46-2	<0.000010		0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Chromium, dissolved	7440-47-3	<0.00050		0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Cobalt, dissolved	7440-48-4	<0.00010		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Copper, dissolved	7440-50-8	0.00102		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Iron, dissolved	7439-89-6	<0.010		0.010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lead, dissolved	7439-92-1	<0.000050		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Lithium, dissolved	7439-93-2	0.0032		0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Magnesium, dissolved	7439-95-4	44.1		0.0050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Manganese, dissolved	7439-96-5	0.00901		0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Mercury, dissolved	7439-97-6	<0.0000050		0.0000050	mg/L	E509/WT	28-Oct-2024	29-Oct-2024	1735137
Molybdenum, dissolved	7439-98-7	0.000486		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Nickel, dissolved	7440-02-0	<0.00050		0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Phosphorus, dissolved	7723-14-0	<0.050		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Potassium, dissolved	7440-09-7	1.18		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Rubidium, dissolved	7440-17-7	0.00117		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Selenium, dissolved	7782-49-2	0.000133		0.000050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silicon, dissolved	7440-21-3	7.10		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Silver, dissolved	7440-22-4	<0.000010		0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Sodium, dissolved	7440-23-5	5.39		0.050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Strontium, dissolved	7440-24-6	0.148		0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574

Analytical Results

WT2431970-011

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: DUP
Client sampling date / time: 25-Oct-2024 11:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	7.82	0.50	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thallium, dissolved	7440-28-0	0.000015	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Uranium, dissolved	7440-61-1	0.00112	0.000010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Vanadium, dissolved	7440-62-2	0.00053	0.00050	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/WT	29-Oct-2024	29-Oct-2024	1737574
Dissolved mercury filtration location	----	Field	-	-	EP509/WT	-	28-Oct-2024	1735137
Dissolved metals filtration location	----	Field	-	-	EP421/WT	-	29-Oct-2024	1737574
Speciated Metals								
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.00050	0.00050	mg/L	E532A/WT	-	28-Oct-2024	1735932
Aggregate Organics								
Biochemical oxygen demand [BOD]	----	<3.0 BODL	3.0	mg/L	E550/WT	-	27-Oct-2024	1734670
Oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567/WT	29-Oct-2024	30-Oct-2024	1736611
Phenols, total (4AAP)	----	<0.0010	0.0010	mg/L	E562/EO	29-Oct-2024	29-Oct-2024	1737958
Volatile Organic Compounds								
Acetone	67-64-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Benzene	71-43-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromoform	75-25-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Bromomethane	74-83-9	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Chloroform	67-66-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889

Analytical Results

WT2431970-011

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: DUP

Client sampling date / time: 25-Oct-2024 11:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Hexane, n-	110-54-3	<0.60 SFPR	0.60	µg/L	E611D/WT	28-Oct-2024	29-Oct-2024	1734889
Methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Styrene	100-42-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Toluene	108-88-3	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
BTEX, total	----	<1.0	1.0	µg/L	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
F2 (C10-C16)	----	<100	100	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735697
F2-Naphthalene	----	<100	100	µg/L	EC600SG/WT	-	01-Nov-2024	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735697
F3-PAH	n/a	<250	250	µg/L	EC600SG/WT	-	01-Nov-2024	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735697
F1-BTEX	----	<25	25	µg/L	EC580/WT	-	30-Oct-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370	370	µg/L	EC581SG/WT	-	29-Oct-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735697
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	88.0	1.0	%	E601.SG/WT	28-Oct-2024	01-Nov-2024	1735697
Dichlorotoluene, 3,4-	95-75-0	74.6	1.0	%	E581.F1-L/WT	28-Oct-2024	28-Oct-2024	1734890
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	83.6	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Difluorobenzene, 1,4-	540-36-3	99.2	1.0	%	E611D/WT	28-Oct-2024	28-Oct-2024	1734889
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Benzo(b+j)fluoranthene	n/a	0.024	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Benzo(g,h,i)perylene	191-24-2	0.016	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Chrysene	218-01-9	0.018	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698

Analytical Results

WT2431970-011

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: DUP

Client sampling date / time: 25-Oct-2024 11:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Fluoranthene	206-44-0	0.021	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Indeno(1,2,3-c,d)pyrene	193-39-5	0.015	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Methylnaphthalene, 1-	90-12-0	0.029	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Methylnaphthalene, 1+2-	----	0.067	0.015	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Methylnaphthalene, 2-	91-57-6	0.038	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Phenanthrene	85-01-8	0.022	0.020	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Pyrene	129-00-0	0.060	0.010	µg/L	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	111	0.1	%	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Naphthalene-d8	1146-65-2	87.2	0.1	%	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Phenanthrene-d10	1517-22-2	98.3	0.1	%	E641A/WT	28-Oct-2024	31-Oct-2024	1735698
Phthalate Esters								
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	<0.60	0.60	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Diethyl phthalate	84-66-2	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dimethyl phthalate	131-11-3	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Semi-Volatile Organics								
Biphenyl	92-52-4	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
bis(2-Chloro-1-methylethyl) ether	108-60-1	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
bis(2-Chloroethyl) ether	111-44-4	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Chloroaniline, 4-	106-47-8	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dichlorobenzidine, 3,3'-	91-94-1	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrotoluene, 2,4-	121-14-2	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrotoluene, 2,4 + 2,6-	n/a	<0.60	0.6	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrotoluene, 2,6-	606-20-2	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Trichlorobenzene, 1,2,4-	120-82-1	<0.40	0.40	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	70.6	1.0	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Nitrobenzene-d5	4165-60-0	81.8	1.0	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Terphenyl-d14, p-	1718-51-0	86.8	1.0	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Chlorinated Phenolics								
Chlorophenol, 2-	95-57-8	<0.30	0.30	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Trichlorophenol, 2,4,5-	95-95-4	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Non-Chlorinated Phenolics								
Dimethylphenol, 2,4-	105-67-9	<0.50	0.50	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Dinitrophenol, 2,4-	51-28-5	<1.0	1.0	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Phenol	108-95-2	<0.50	0.50	µg/L	E625A/WT	31-Oct-2024	31-Oct-2024	1741646
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	66.3	0.50	%	E625A/WT	31-Oct-2024	31-Oct-2024	1741646

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

ALS Canada Ltd.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2431970**	Page	: 1 of 33
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 25-Oct-2024 15:15
PO	: 735-009459	Issue Date	: 01-Nov-2024 17:24
C-O-C number	: ----		
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Volatile Organic Compounds	QC-MRG2-1737428 002	----	Dichlorodifluoromethane	75-71-8	E611D	153 % LCS-H	60.0-140%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	Description
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Matrix Spike (MS) Recoveries								
Dissolved Metals	Anonymous	Anonymous	Silver, dissolved	7440-22-4	E421	61.2 % MES	70.0-130%	Recovery less than lower data quality objective

Result Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] MW4-23	E550	25-Oct-2024	----	----	----		27-Oct-2024	4 days	1 days	✓
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] MW5-23	E550	25-Oct-2024	----	----	----		27-Oct-2024	4 days	1 days	✓
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] DUP	E550	25-Oct-2024	----	----	----		27-Oct-2024	4 days	2 days	✓
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] MW3-20	E550	25-Oct-2024	----	----	----		27-Oct-2024	4 days	2 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AGW1	E567	25-Oct-2024	27-Oct-2024	28 days	2 days	✓	29-Oct-2024	28 days	4 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) APW1	E567	25-Oct-2024	27-Oct-2024	28 days	2 days	✓	29-Oct-2024	28 days	4 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) BH213	E567	25-Oct-2024	27-Oct-2024	28 days	2 days	✓	29-Oct-2024	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)										
BH219	E567	25-Oct-2024	27-Oct-2024	28 days	2 days	✓	29-Oct-2024	28 days	4 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)										
FB	E567	25-Oct-2024	27-Oct-2024	28 days	2 days	✓	29-Oct-2024	28 days	4 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)										
MW1-20	E567	25-Oct-2024	27-Oct-2024	28 days	2 days	✓	29-Oct-2024	28 days	4 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)										
MW2-20	E567	25-Oct-2024	27-Oct-2024	28 days	2 days	✓	29-Oct-2024	28 days	4 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)										
MW3-20	E567	25-Oct-2024	27-Oct-2024	28 days	2 days	✓	29-Oct-2024	28 days	4 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)										
MW4-23	E567	25-Oct-2024	27-Oct-2024	28 days	2 days	✓	29-Oct-2024	28 days	4 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)										
MW5-23	E567	25-Oct-2024	27-Oct-2024	28 days	2 days	✓	29-Oct-2024	28 days	4 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)										
DUP	E567	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	30-Oct-2024	28 days	5 days	✓
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid)										
DUP	E562	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	29-Oct-2024	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) MW3-20	E562	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	29-Oct-2024	28 days	4 days	✓
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) MW4-23	E562	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	29-Oct-2024	28 days	4 days	✓
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) MW5-23	E562	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	29-Oct-2024	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) DUP	E298	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) MW3-20	E298	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) MW4-23	E298	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) MW5-23	E298	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] DUP	E235.Cl	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	30-Oct-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] MW3-20	E235.Cl	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	30-Oct-2024	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW4-23	E235.Cl	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	30-Oct-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW5-23	E235.Cl	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	30-Oct-2024	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
AGW1	E235.Cl	25-Oct-2024	30-Oct-2024	28 days	5 days	✓	31-Oct-2024	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
APW1	E235.Cl	25-Oct-2024	30-Oct-2024	28 days	5 days	✓	31-Oct-2024	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
BH213	E235.Cl	25-Oct-2024	30-Oct-2024	28 days	5 days	✓	31-Oct-2024	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
BH219	E235.Cl	25-Oct-2024	30-Oct-2024	28 days	5 days	✓	31-Oct-2024	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
FB	E235.Cl	25-Oct-2024	30-Oct-2024	28 days	5 days	✓	31-Oct-2024	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW1-20	E235.Cl	25-Oct-2024	30-Oct-2024	28 days	5 days	✓	31-Oct-2024	28 days	6 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW2-20	E235.Cl	25-Oct-2024	30-Oct-2024	28 days	5 days	✓	31-Oct-2024	28 days	6 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] DUP	E235.NO3	25-Oct-2024	29-Oct-2024	7 days	4 days	✓	30-Oct-2024	7 days	5 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] MW3-20	E235.NO3	25-Oct-2024	29-Oct-2024	7 days	4 days	✓	30-Oct-2024	7 days	5 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] MW4-23	E235.NO3	25-Oct-2024	29-Oct-2024	7 days	4 days	✓	30-Oct-2024	7 days	5 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] MW5-23	E235.NO3	25-Oct-2024	29-Oct-2024	7 days	4 days	✓	30-Oct-2024	7 days	5 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] DUP	E235.NO2	25-Oct-2024	29-Oct-2024	7 days	4 days	✓	30-Oct-2024	7 days	5 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] MW3-20	E235.NO2	25-Oct-2024	29-Oct-2024	7 days	4 days	✓	30-Oct-2024	7 days	5 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] MW4-23	E235.NO2	25-Oct-2024	29-Oct-2024	7 days	4 days	✓	30-Oct-2024	7 days	5 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] MW5-23	E235.NO2	25-Oct-2024	29-Oct-2024	7 days	4 days	✓	30-Oct-2024	7 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] DUP	E235.SO4	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	30-Oct-2024	28 days	5 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] MW3-20	E235.SO4	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	30-Oct-2024	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] MW4-23	E235.SO4	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	30-Oct-2024	28 days	5 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] MW5-23	E235.SO4	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	30-Oct-2024	28 days	5 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) DUP	E318	25-Oct-2024	31-Oct-2024	28 days	6 days	✓	31-Oct-2024	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) MW3-20	E318	25-Oct-2024	31-Oct-2024	28 days	6 days	✓	31-Oct-2024	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) MW4-23	E318	25-Oct-2024	31-Oct-2024	28 days	6 days	✓	31-Oct-2024	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) MW5-23	E318	25-Oct-2024	31-Oct-2024	28 days	6 days	✓	31-Oct-2024	28 days	6 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) DUP	E372-U	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	29-Oct-2024	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) MW3-20	E372-U	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	29-Oct-2024	28 days	4 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) MW4-23	E372-U	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	29-Oct-2024	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) MW5-23	E372-U	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	29-Oct-2024	28 days	4 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] AGW1	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] APW1	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] BH213	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] BH219	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] FB	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW1-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW2-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW3-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
DUP	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW4-23	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
AGW1	E333	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	29-Oct-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
APW1	E333	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	29-Oct-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
BH213	E333	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	29-Oct-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
BH219	E333	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	29-Oct-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide)										
DUP	E333	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	29-Oct-2024	14 days	4 days	✓

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) FB	E333	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	29-Oct-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW1-20	E333	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	29-Oct-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW2-20	E333	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	29-Oct-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW3-20	E333	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	29-Oct-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW4-23	E333	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	29-Oct-2024	14 days	4 days	✓
Cyanides : Total Cyanide										
UV-inhibited HDPE - total (sodium hydroxide) MW5-23	E333	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	29-Oct-2024	14 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) AGW1	E509	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) APW1	E509	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BH213	E509	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
BH219	E509	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
DUP	E509	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
FB	E509	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW1-20	E509	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW2-20	E509	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW3-20	E509	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW4-23	E509	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW5-23	E509	25-Oct-2024	28-Oct-2024	28 days	3 days	✓	29-Oct-2024	28 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
AGW1	E421	25-Oct-2024	29-Oct-2024	180 days	4 days	✓	29-Oct-2024	180 days	4 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) APW1	E421	25-Oct-2024	29-Oct-2024	180 days	4 days	✓	29-Oct-2024	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH213	E421	25-Oct-2024	29-Oct-2024	180 days	4 days	✓	29-Oct-2024	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BH219	E421	25-Oct-2024	29-Oct-2024	180 days	4 days	✓	29-Oct-2024	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) DUP	E421	25-Oct-2024	29-Oct-2024	180 days	4 days	✓	29-Oct-2024	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) FB	E421	25-Oct-2024	29-Oct-2024	180 days	4 days	✓	29-Oct-2024	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW1-20	E421	25-Oct-2024	29-Oct-2024	180 days	4 days	✓	29-Oct-2024	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW2-20	E421	25-Oct-2024	29-Oct-2024	180 days	4 days	✓	29-Oct-2024	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW3-20	E421	25-Oct-2024	29-Oct-2024	180 days	4 days	✓	29-Oct-2024	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW4-23	E421	25-Oct-2024	29-Oct-2024	180 days	4 days	✓	29-Oct-2024	180 days	4 days	✓

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW5-23	E421	25-Oct-2024	29-Oct-2024	180 days	4 days	✓	29-Oct-2024	180 days	4 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) AGW1	E581.F1-L	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) APW1	E581.F1-L	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) BH213	E581.F1-L	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) BH219	E581.F1-L	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) DUP	E581.F1-L	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) FB	E581.F1-L	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW1-20	E581.F1-L	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW2-20	E581.F1-L	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW3-20	E581.F1-L	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW4-23	E581.F1-L	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW5-23	E581.F1-L	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) AGW1	E601.SG	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	01-Nov-2024	40 days	4 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) APW1	E601.SG	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	01-Nov-2024	40 days	4 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) BH213	E601.SG	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	01-Nov-2024	40 days	4 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) BH219	E601.SG	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	01-Nov-2024	40 days	4 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) DUP	E601.SG	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	01-Nov-2024	40 days	4 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) FB	E601.SG	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	01-Nov-2024	40 days	4 days	✓

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW1-20	E601.SG	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	01-Nov-2024	40 days	4 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW2-20	E601.SG	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	01-Nov-2024	40 days	4 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW3-20	E601.SG	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	01-Nov-2024	40 days	4 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW4-23	E601.SG	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	01-Nov-2024	40 days	4 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW5-23	E601.SG	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	01-Nov-2024	40 days	4 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
AGW1	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
APW1	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
BH213	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
BH219	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
FB	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW1-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW2-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW3-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
DUP	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW4-23	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Non-Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid)										
DUP	E358-L	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	31-Oct-2024	28 days	6 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid)										
MW3-20	E358-L	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	31-Oct-2024	28 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) MW4-23	E358-L	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	31-Oct-2024	28 days	6 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) MW5-23	E358-L	25-Oct-2024	29-Oct-2024	28 days	4 days	✓	31-Oct-2024	28 days	6 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] AGW1	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] APW1	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] BH213	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] BH219	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] FB	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW1-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] MW2-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW3-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
DUP	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW4-23	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP]										
DUP	E290	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	30-Oct-2024	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP]										
MW3-20	E290	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	30-Oct-2024	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP]										
MW4-23	E290	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	30-Oct-2024	14 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP]										
MW5-23	E290	25-Oct-2024	29-Oct-2024	14 days	4 days	✓	30-Oct-2024	14 days	5 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP]										
DUP	E162	25-Oct-2024	----	----	----		29-Oct-2024	7 days	4 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] MW3-20	E162	25-Oct-2024	----	----	----		29-Oct-2024	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] MW4-23	E162	25-Oct-2024	----	----	----		29-Oct-2024	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] MW5-23	E162	25-Oct-2024	----	----	----		29-Oct-2024	7 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) AGW1	E641A	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	29-Oct-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) APW1	E641A	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	29-Oct-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) BH213	E641A	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	29-Oct-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) BH219	E641A	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	29-Oct-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) FB	E641A	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	29-Oct-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW1-20	E641A	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	29-Oct-2024	40 days	1 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW2-20	E641A	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	29-Oct-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW3-20	E641A	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	29-Oct-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW4-23	E641A	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	29-Oct-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) DUP	E641A	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	31-Oct-2024	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW5-23	E641A	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	31-Oct-2024	40 days	3 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] AGW1	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] APW1	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] BH213	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP] BH219	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
FB	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW1-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW2-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW3-20	E625A	25-Oct-2024	30-Oct-2024	14 days	5 days	✓	30-Oct-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
DUP	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW4-23	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW5-23	E625A	25-Oct-2024	31-Oct-2024	14 days	6 days	✓	31-Oct-2024	40 days	0 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
AGW1	E532A	25-Oct-2024	----	----	----		26-Oct-2024	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
APW1	E532A	25-Oct-2024	----	----	----		26-Oct-2024	28 days	1 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH213	E532A	25-Oct-2024	----	----	----		26-Oct-2024	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
BH219	E532A	25-Oct-2024	----	----	----		26-Oct-2024	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW1-20	E532A	25-Oct-2024	----	----	----		26-Oct-2024	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW2-20	E532A	25-Oct-2024	----	----	----		26-Oct-2024	28 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
DUP	E532A	25-Oct-2024	----	----	----		28-Oct-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
FB	E532A	25-Oct-2024	----	----	----		28-Oct-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW3-20	E532A	25-Oct-2024	----	----	----		28-Oct-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW4-23	E532A	25-Oct-2024	----	----	----		28-Oct-2024	28 days	3 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW5-23	E532A	25-Oct-2024	----	----	----		28-Oct-2024	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) AGW1	E611D	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) APW1	E611D	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) BH213	E611D	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) BH219	E611D	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) DUP	E611D	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) FB	E611D	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW1-20	E611D	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW2-20	E611D	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW3-20	E611D	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓

Matrix: **Water**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW4-23	E611D	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW5-23	E611D	25-Oct-2024	28-Oct-2024	14 days	3 days	✓	28-Oct-2024	14 days	3 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: ✗ = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Alkalinity Species by Titration	E290	1738505	1	15	6.6	5.0	✓
Ammonia by Fluorescence	E298	1735670	1	20	5.0	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	1734670	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1734890	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	1738509	2	30	6.6	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1733619	2	32	6.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1735137	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1737574	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1737232	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	1738506	1	19	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	1738507	1	19	5.2	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1737958	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1738508	1	16	6.2	5.0	✓
TDS by Gravimetry	E162	1737292	1	20	5.0	5.0	✓
Total Cyanide	E333	1734913	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1735669	0	19	0.0	5.0	✗
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1735671	1	17	5.8	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1734889	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	1738505	1	15	6.6	5.0	✓
Ammonia by Fluorescence	E298	1735670	1	20	5.0	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	1734670	1	20	5.0	5.0	✓
BNA (Routine List) by GC-MS-MS	E625A	1739055	2	32	6.2	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1734890	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	1738509	2	30	6.6	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1733619	2	32	6.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1735137	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1737574	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1737232	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	1738506	1	19	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	1738507	1	19	5.2	5.0	✓
Oil & Grease by Gravimetry	E567	1734449	2	35	5.7	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1735698	2	13	15.3	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1737958	1	20	5.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1735697	2	38	5.2	5.0	✓
Sulfate in Water by IC	E235.SO4	1738508	1	16	6.2	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Control Samples (LCS) - Continued							
TDS by Gravimetry	E162	1737292	1	20	5.0	5.0	✓
Total Cyanide	E333	1734913	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1735669	1	19	5.2	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1735671	1	17	5.8	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1734889	2	20	10.0	5.0	✓
Method Blanks (MB)							
Alkalinity Species by Titration	E290	1738505	1	15	6.6	5.0	✓
Ammonia by Fluorescence	E298	1735670	1	20	5.0	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	1734670	1	20	5.0	5.0	✓
BNA (Routine List) by GC-MS-MS	E625A	1739055	2	32	6.2	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1734890	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	1738509	2	30	6.6	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1733619	2	32	6.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1735137	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1737574	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1737232	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	1738506	1	19	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	1738507	1	19	5.2	5.0	✓
Oil & Grease by Gravimetry	E567	1734449	2	35	5.7	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1735698	2	13	15.3	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1737958	1	20	5.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1735697	2	38	5.2	5.0	✓
Sulfate in Water by IC	E235.SO4	1738508	1	16	6.2	5.0	✓
TDS by Gravimetry	E162	1737292	1	20	5.0	5.0	✓
Total Cyanide	E333	1734913	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1735669	1	19	5.2	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1735671	1	17	5.8	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1734889	2	20	10.0	5.0	✓
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	1735670	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1734890	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	1738509	2	30	6.6	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1733619	2	32	6.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1735137	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1737574	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1737232	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	1738506	1	19	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	1738507	1	19	5.2	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1737958	1	20	5.0	5.0	✓

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Sulfate in Water by IC	E235.SO4	1738508	1	16	6.2	5.0	✓
Total Cyanide	E333	1734913	1	20	5.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1735669	0	19	0.0	5.0	×
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1735671	1	17	5.8	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1734889	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
TDS by Gravimetry	E162 ALS Environmental - Waterloo	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at 180 ± 2°C for 16 hours or to constant weight, with gravimetric measurement of the residue.
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite in Water by IC	E235.NO2 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate in Water by IC	E235.NO3 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Sulfate in Water by IC	E235.SO4 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Alkalinity Species by Titration	E290 ALS Environmental - Waterloo	Water	APHA 2320 B (mod)	Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.
Ammonia by Fluorescence	E298 ALS Environmental - Waterloo	Water	Method Fialab 100, 2018	Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021)
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318 ALS Environmental - Waterloo	Water	Method Fialab 100, 2018	TKN in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021).
Total Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Organic Carbon by Combustion (Low Level)	E358-L ALS Environmental - Waterloo	Water	APHA 5310 B (mod)	Dissolved Organic Carbon (Non-Purgeable), also known as NPOC (dissolved), is a direct measurement of DOC after a filtered (0.45 micron) sample has been acidified and purged to remove inorganic carbon (IC). Analysis is by high temperature combustion with infrared detection of CO2. NPOC does not include volatile organic species that are purged off with IC. For samples where the majority of DC (dissolved carbon) is comprised of IC (which is common), this method is more accurate and more reliable than the DOC by subtraction method (i.e. DC minus DIC).
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U ALS Environmental - Waterloo	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A ALS Environmental - Waterloo	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
Biochemical Oxygen Demand - 5 day	E550 ALS Environmental - Waterloo	Water	APHA 5210 B (mod)	Samples are diluted and incubated for a specified time period, after which the oxygen depletion is measured using a dissolved oxygen meter. Free chlorine is a negative interference in the BOD method; please advise ALS when free chlorine is present in samples.
Phenols (4AAP) in Water by Colorimetry	E562 ALS Environmental - Edmonton	Water	EPA 9066	This automated method is based on the distillation of phenol and subsequent reaction of the distillate with alkaline ferricyanide (K3Fe(CN)6) and 4-amino-antipyrine (4-AAP) to form a red complex which is measured colorimetrically.
Oil & Grease by Gravimetry	E567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
BNA (Routine List) by GC-MS-MS	E625A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS-MS.
PAHs in Water by Hexane LVI GC-MS	E641A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Waterloo	Water	APHA 2340B	"Hardness (as CaCO3), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations.
F1-BTEX	EC580 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Preparation for Ammonia	EP298 ALS Environmental - Waterloo	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Digestion for TKN in water	EP318 ALS Environmental - Waterloo	Water	APHA 4500-Norg D (mod)	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst, which converts organic nitrogen sources to Ammonia, which is then quantified by the analytical method as TKN. This method is unsuitable for samples containing high levels of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be biased low.
Preparation for Dissolved Organic Carbon for Combustion	EP358 ALS Environmental - Waterloo	Water	APHA 5310 B (mod)	Preparation for Dissolved Organic Carbon
Digestion for Total Phosphorus in water	EP372 ALS Environmental - Waterloo	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into a GC-MS-FID.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
BNA Extraction	EP625 ALS Environmental - Waterloo	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.

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QUALITY CONTROL REPORT

Work Order	: **WT2431970**	Page	: 1 of 26
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 11210029	Date Samples Received	: 25-Oct-2024 15:15
PO	: 735-009459	Date Analysis Commenced	: 26-Oct-2024
C-O-C number	: ----	Issue Date	: 01-Nov-2024 17:23
Sampler	: ----		
Site	: Badger Cambridge		
Quote number	: 11210029-SSOW-735-009459		
No. of samples received	: 11		
No. of samples analysed	: 11		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Brooke Miller	Laboratory Analyst	Edmonton Inorganics, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Hannah Lewis	Inorganics Analyst	Waterloo Inorganics, Waterloo, Ontario
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 1737292)											
WT2431818-004	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	320	328	2.47%	20%	----
Physical Tests (QC Lot: 1738505)											
WT2431756-002	Anonymous	Alkalinity, total (as CaCO3)	----	E290	2.0	mg/L	207	208	0.655%	20%	----
Anions and Nutrients (QC Lot: 1735670)											
FJ2403261-002	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0250	mg/L	0.758	0.747	1.47%	20%	----
Anions and Nutrients (QC Lot: 1735671)											
FJ2403261-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0084	0.0077	0.0006	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1738506)											
WT2432163-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	0.200	mg/L	0.960	0.932	0.028	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1738507)											
WT2432163-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1738508)											
WT2432163-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	3.00	mg/L	2230	2210	0.937%	20%	----
Anions and Nutrients (QC Lot: 1738509)											
WT2432163-001	Anonymous	Chloride	16887-00-6	E235.Cl	5.00	mg/L	44.9	44.8	0.11	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1740107)											
WT2431830-002	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	150	150	0.209%	20%	----
Cyanides (QC Lot: 1734913)											
WT2431922-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.0020	mg/L	<0.0020	<0.0020	0	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 1737232)											
VA24C8367-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	10.4	10.8	4.26%	20%	----
Dissolved Metals (QC Lot: 1735137)											
TY2411999-004	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1737574)											
WT2431856-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00018	0.00017	0.00002	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0204	0.0207	1.57%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1737574) - continued											
WT2431856-002	Anonymous	Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	0.065	0.067	0.002	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	77.2	78.2	1.31%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.024	0.024	0.00006	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	12.4	12.5	0.663%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.518	0.515	0.603%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000216	0.000220	0.000004	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	2.55	2.59	1.42%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00205	0.00197	4.41%	20%	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	5.08	5.14	1.19%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	7.47	7.54	0.911%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.214	0.213	0.454%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	1.66	1.67	0.007	Diff <2x LOR	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000161	0.000159	1.50%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Speciated Metals (QC Lot: 1733619)											
TY2412172-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1735932)											
VA24C8597-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
Aggregate Organics (QC Lot: 1734670)											
WT2431870-028	Anonymous	Biochemical oxygen demand [BOD]	----	E550	2.0	mg/L	<2.0	<2.0	0.0%	30%	----
Aggregate Organics (QC Lot: 1737958)											
VA24C8663-001	Anonymous	Phenols, total (4AAP)	----	E562	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1734889)											
WT2431970-001	MW2-20	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1734889) - continued											
WT2431970-001	MW2-20	Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1734890)											
WT2431970-001	MW2-20	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 1737292)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Physical Tests (QCLot: 1738505)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Anions and Nutrients (QCLot: 1735669)						
Kjeldahl nitrogen, total [TKN]	----	E318	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1735670)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1735671)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Anions and Nutrients (QCLot: 1738506)						
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1738507)						
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	<0.010	----
Anions and Nutrients (QCLot: 1738508)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 1738509)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1740107)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 1734913)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Organic / Inorganic Carbon (QCLot: 1737232)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Dissolved Metals (QCLot: 1735137)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1737574)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1737574) - continued						
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Speciated Metals (QCLot: 1733619)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Speciated Metals (QCLot: 1735932)						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1734449)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 1734670)						
Biochemical oxygen demand [BOD]	----	E550	2	mg/L	<2.0	----
Aggregate Organics (QCLot: 1736611)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 1737958)						
Phenols, total (4AAP)	----	E562	0.001	mg/L	<0.0010	----
Volatile Organic Compounds (QCLot: 1734889)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1734889) - continued						
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Volatile Organic Compounds (QCLot: 1737428)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1737428) - continued						
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1734890)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 1735697)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Hydrocarbons (QCLot: 1735744)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1735698)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1735698) - continued						
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1735743)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Phthalate Esters (QCLot: 1739055)						

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Phthalate Esters (QCLot: 1739055) - continued						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	<0.60	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	<0.20	----
Phthalate Esters (QCLot: 1741646)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	<0.60	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	<0.20	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	<0.20	----
Semi-Volatile Organics (QCLot: 1739055)						
Biphenyl	92-52-4	E625A	0.2	µg/L	<0.20	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	<0.40	----
Semi-Volatile Organics (QCLot: 1741646)						
Biphenyl	92-52-4	E625A	0.2	µg/L	<0.20	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	<0.40	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	<0.40	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	<0.40	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	<0.40	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	<0.40	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 1739055)						
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	<0.20	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	<0.50	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	<0.20	----
Chlorinated Phenolics (QCLot: 1741646)						
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	<0.30	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	<0.20	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Chlorinated Phenolics (QCLot: 1741646) - continued						
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	<0.20	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	<0.20	----
Non-Chlorinated Phenolics (QCLot: 1739055)						
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	<1.0	----
Phenol	108-95-2	E625A	0.5	µg/L	<0.50	----
Non-Chlorinated Phenolics (QCLot: 1741646)						
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	<0.50	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	<1.0	----
Phenol	108-95-2	E625A	0.5	µg/L	<0.50	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1737292)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	98.8	85.0	115	----
Physical Tests (QCLot: 1738505)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	150 mg/L	100.0	85.0	115	----
Anions and Nutrients (QCLot: 1735669)									
Kjeldahl nitrogen, total [TKN]	----	E318	0.05	mg/L	4 mg/L	107	75.0	125	----
Anions and Nutrients (QCLot: 1735670)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	100	85.0	115	----
Anions and Nutrients (QCLot: 1735671)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.333 mg/L	97.5	80.0	120	----
Anions and Nutrients (QCLot: 1738506)									
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	2.5 mg/L	98.6	90.0	110	----
Anions and Nutrients (QCLot: 1738507)									
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	0.5 mg/L	100	90.0	110	----
Anions and Nutrients (QCLot: 1738508)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	100	90.0	110	----
Anions and Nutrients (QCLot: 1738509)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	99.4	90.0	110	----
Anions and Nutrients (QCLot: 1740107)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	99.3	90.0	110	----
Cyanides (QCLot: 1734913)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	84.5	80.0	120	----
Organic / Inorganic Carbon (QCLot: 1737232)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	109	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	99.3	80.0	120	----
Dissolved Metals (QCLot: 1737574)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	96.5	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	103	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	106	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Dissolved Metals (QCLot: 1737574) - continued									
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.012 mg/L	104	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	93.6	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	103	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	90.6	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	102	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	98.7	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.002 mg/L	110	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.012 mg/L	99.3	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.012 mg/L	99.5	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.012 mg/L	97.7	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	99.5	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	104	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.012 mg/L	92.8	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	103	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.012 mg/L	100.0	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.012 mg/L	102	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	98.8	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	98.0	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	100	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	101	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	102	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	98.1	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	99.2	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	99.3	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.012 mg/L	105	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	93.6	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	97.6	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	104	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	102	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	106	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.012 mg/L	98.4	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	102	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0 mg/L	106	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	101	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	102	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	102	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Speciated Metals (QCLot: 1733619)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	97.4	80.0	120	----
Speciated Metals (QCLot: 1735932)									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	99.1	80.0	120	----
Aggregate Organics (QCLot: 1734449)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	94.4	70.0	130	----
Aggregate Organics (QCLot: 1734670)									
Biochemical oxygen demand [BOD]	----	E550	2	mg/L	198 mg/L	87.0	85.0	115	----
Aggregate Organics (QCLot: 1736611)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	95.9	70.0	130	----
Aggregate Organics (QCLot: 1737958)									
Phenols, total (4AAP)	----	E562	0.001	mg/L	0.02 mg/L	98.9	85.0	115	----
Volatile Organic Compounds (QCLot: 1734889)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	111	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	124	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	90.1	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	105	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	102	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	99.6	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	122	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	120	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	105	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	117	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Volatile Organic Compounds (QCLot: 1734889) - continued									
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	116	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	102	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	117	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	104	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	110	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	96.8	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	106	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	104	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	99.5	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	105	70.0	130	----
Volatile Organic Compounds (QCLot: 1737428)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	117	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	96.3	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	100.0	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	103	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	105	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	99.3	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	94.5	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	# 153	60.0	140	LCS-H
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	120	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Volatile Organic Compounds (QCLot: 1737428) - continued									
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	118	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	125	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	102	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	100	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	96.1	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	121	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	99.1	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	94.1	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	98.3	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	94.8	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	96.6	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	122	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	121	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	100	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	105	70.0	130	----
Hydrocarbons (QCLot: 1734890)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	82.5	80.0	120	----
Hydrocarbons (QCLot: 1735697)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4000 µg/L	83.7	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	8270 µg/L	89.0	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4470 µg/L	98.3	70.0	130	----
Hydrocarbons (QCLot: 1735744)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4000 µg/L	106	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	8270 µg/L	99.1	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4470 µg/L	99.0	70.0	130	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1735698)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.526 µg/L	95.3	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.526 µg/L	90.6	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.526 µg/L	91.7	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.526 µg/L	103	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.526 µg/L	95.9	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.526 µg/L	96.1	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.526 µg/L	90.8	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.526 µg/L	96.4	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.526 µg/L	105	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.526 µg/L	94.2	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.526 µg/L	99.0	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.526 µg/L	95.5	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.526 µg/L	105	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.526 µg/L	93.9	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.526 µg/L	96.0	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.526 µg/L	85.9	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.526 µg/L	106	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.526 µg/L	105	50.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1735743)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.526 µg/L	92.8	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.526 µg/L	88.4	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.526 µg/L	88.4	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.526 µg/L	99.8	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.526 µg/L	95.0	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.526 µg/L	94.3	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.526 µg/L	90.9	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.526 µg/L	96.3	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.526 µg/L	106	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.526 µg/L	93.2	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.526 µg/L	97.4	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.526 µg/L	92.4	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.526 µg/L	103	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.526 µg/L	90.6	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.526 µg/L	92.4	50.0	140	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.526 µg/L	83.9	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.526 µg/L	102	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Target Concentration	Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1735743) - continued									
Pyrene	129-00-0	E641A	0.01	µg/L	0.526 µg/L	104	50.0	140	----
Phthalate Esters (QCLot: 1739055)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	33.7 µg/L	99.6	50.0	140	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	33.7 µg/L	92.3	50.0	140	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	33.7 µg/L	91.5	50.0	140	----
Phthalate Esters (QCLot: 1741646)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	33.7 µg/L	109	50.0	140	----
Diethyl phthalate	84-66-2	E625A	0.2	µg/L	33.7 µg/L	89.2	50.0	140	----
Dimethyl phthalate	131-11-3	E625A	0.2	µg/L	33.7 µg/L	89.8	50.0	140	----
Semi-Volatile Organics (QCLot: 1739055)									
Biphenyl	92-52-4	E625A	0.2	µg/L	8.42 µg/L	77.7	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	8.42 µg/L	84.7	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	8.42 µg/L	84.7	50.0	140	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	8.42 µg/L	88.5	30.0	140	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	8.42 µg/L	62.7	50.0	140	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	8.42 µg/L	83.3	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	8.42 µg/L	83.8	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	8.42 µg/L	85.0	50.0	130	----
Semi-Volatile Organics (QCLot: 1741646)									
Biphenyl	92-52-4	E625A	0.2	µg/L	8.42 µg/L	75.0	50.0	140	----
bis(2-Chloro-1-methylethyl) ether	108-60-1	E625A	0.4	µg/L	8.42 µg/L	73.8	50.0	140	----
bis(2-Chloroethyl) ether	111-44-4	E625A	0.4	µg/L	8.42 µg/L	112	50.0	140	----
Chloroaniline, 4-	106-47-8	E625A	0.4	µg/L	8.42 µg/L	97.3	30.0	140	----
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	8.42 µg/L	84.9	50.0	140	----
Dinitrotoluene, 2,4-	121-14-2	E625A	0.4	µg/L	8.42 µg/L	80.8	50.0	140	----
Dinitrotoluene, 2,6-	606-20-2	E625A	0.4	µg/L	8.42 µg/L	72.9	50.0	140	----
Trichlorobenzene, 1,2,4-	120-82-1	E625A	0.4	µg/L	8.42 µg/L	61.2	50.0	130	----
Chlorinated Phenolics (QCLot: 1739055)									
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	25.3 µg/L	71.2	65.0	130	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	25.3 µg/L	88.9	65.0	130	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	25.3 µg/L	76.4	65.0	130	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	25.3 µg/L	83.2	65.0	130	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	25.3 µg/L	83.9	65.0	130	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Chlorinated Phenolics (QCLot: 1741646)									
Chlorophenol, 2-	95-57-8	E625A	0.3	µg/L	25.3 µg/L	84.9	65.0	130	----
Dichlorophenol, 2,4-	120-83-2	E625A	0.2	µg/L	25.3 µg/L	74.0	65.0	130	----
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	25.3 µg/L	71.1	65.0	130	----
Trichlorophenol, 2,4,5-	95-95-4	E625A	0.2	µg/L	25.3 µg/L	80.0	65.0	130	----
Trichlorophenol, 2,4,6-	88-06-2	E625A	0.2	µg/L	25.3 µg/L	77.9	65.0	130	----
Non-Chlorinated Phenolics (QCLot: 1739055)									
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	25.3 µg/L	86.4	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	25.3 µg/L	68.8	40.0	140	----
Phenol	108-95-2	E625A	0.5	µg/L	25.3 µg/L	108	30.0	130	----
Non-Chlorinated Phenolics (QCLot: 1741646)									
Dimethylphenol, 2,4-	105-67-9	E625A	0.5	µg/L	25.3 µg/L	72.4	30.0	130	----
Dinitrophenol, 2,4-	51-28-5	E625A	1	µg/L	25.3 µg/L	72.1	40.0	140	----
Phenol	108-95-2	E625A	0.5	µg/L	25.3 µg/L	107	30.0	130	----

Qualifiers

Qualifier	Description
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1735670)										
FJ2403261-002	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 1735671)										
FJ2403261-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0963 mg/L	0.1 mg/L	96.3	70.0	130	----
Anions and Nutrients (QCLot: 1738506)										
WT2432163-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	24.7 mg/L	25 mg/L	98.7	75.0	125	----
Anions and Nutrients (QCLot: 1738507)										
WT2432163-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	4.98 mg/L	5 mg/L	99.6	75.0	125	----
Anions and Nutrients (QCLot: 1738508)										
WT2432163-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 1738509)										
WT2432163-001	Anonymous	Chloride	16887-00-6	E235.Cl	995 mg/L	1000 mg/L	99.5	75.0	125	----
Anions and Nutrients (QCLot: 1740107)										
WT2431830-002	Anonymous	Chloride	16887-00-6	E235.Cl	ND mg/L	----	ND	75.0	125	----
Cyanides (QCLot: 1734913)										
WT2431922-001	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	0.214 mg/L	0.25 mg/L	85.4	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1737232)										
VA24C8367-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	ND mg/L	----	ND	70.0	130	----
Dissolved Metals (QCLot: 1735137)										
TY2411999-005	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000925 mg/L	0 mg/L	92.5	70.0	130	----
Dissolved Metals (QCLot: 1737574)										
WT2431856-003	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0988 mg/L	0.1 mg/L	98.8	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0504 mg/L	0.05 mg/L	101	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0546 mg/L	0.05 mg/L	109	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.00473 mg/L	0.005 mg/L	94.6	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0422 mg/L	0.05 mg/L	84.4	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.042 mg/L	0.05 mg/L	84.5	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00520 mg/L	0.005 mg/L	104	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00273 mg/L	0.002 mg/L	109	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0123 mg/L	0.012 mg/L	98.7	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0120 mg/L	0.012 mg/L	95.6	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0119 mg/L	0.012 mg/L	95.6	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 1737574) - continued										
WT2431856-003	Anonymous	Iron, dissolved	7439-89-6	E421	0.051 mg/L	0.05 mg/L	102	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0248 mg/L	0.025 mg/L	99.0	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0119 mg/L	0.012 mg/L	95.3	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	ND mg/L	----	ND	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0128 mg/L	0.012 mg/L	102	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0234 mg/L	0.025 mg/L	93.7	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	0.552 mg/L	0.5 mg/L	110	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	ND mg/L	----	ND	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.00503 mg/L	0.005 mg/L	101	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0557 mg/L	0.05 mg/L	111	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	----	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00306 mg/L	0.005 mg/L	61.2	70.0	130	MES
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	----	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.00525 mg/L	0.005 mg/L	105	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0498 mg/L	0.05 mg/L	99.5	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.00454 mg/L	0.005 mg/L	90.8	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0258 mg/L	0.025 mg/L	103	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0127 mg/L	0.012 mg/L	101	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.00503 mg/L	0.005 mg/L	100	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	----	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0254 mg/L	0.025 mg/L	101	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.0251 mg/L	0.025 mg/L	100	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.00501 mg/L	0.005 mg/L	100	70.0	130	----
Speciated Metals (QCLot: 1733619)										
TY2412172-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0402 mg/L	0.04 mg/L	100	70.0	130	----
Speciated Metals (QCLot: 1735932)										
VA24C8597-001	Anonymous	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0409 mg/L	0.04 mg/L	102	70.0	130	----
Aggregate Organics (QCLot: 1737958)										
VA24C8663-002	Anonymous	Phenols, total (4AAP)	----	E562	0.0195 mg/L	0.02 mg/L	97.4	75.0	125	----
Volatile Organic Compounds (QCLot: 1734889)										
WT2431970-001	MW2-20	Acetone	67-64-1	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Benzene	71-43-2	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	126 µg/L	100 µg/L	126	60.0	140	----
		Bromoform	75-25-2	E611D	94.7 µg/L	100 µg/L	94.7	60.0	140	----
		Bromomethane	74-83-9	E611D	89.7 µg/L	100 µg/L	89.7	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Chlorobenzene	108-90-7	E611D	104 µg/L	100 µg/L	104	60.0	140	----

Sub-Matrix: **Water**

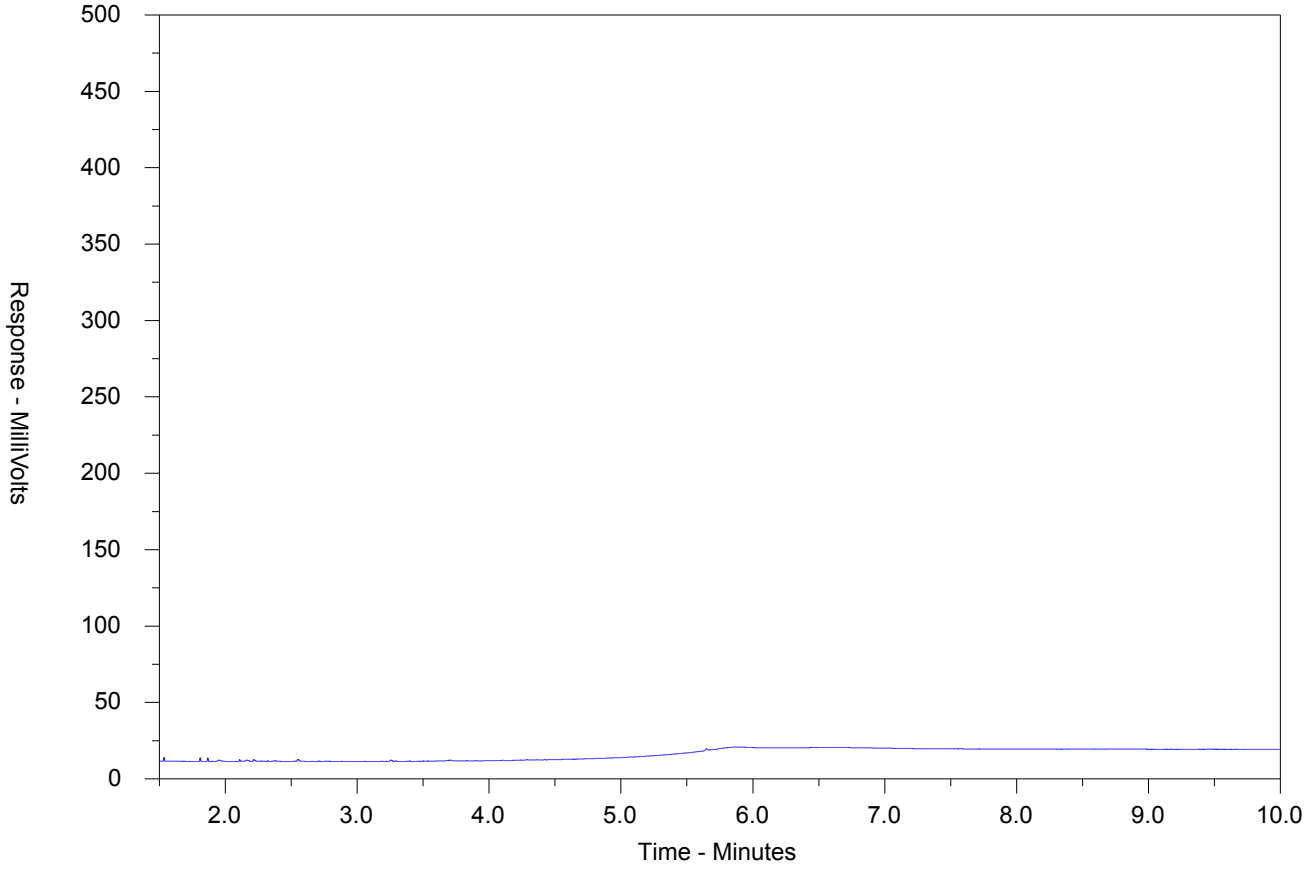
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike Concentration	Spike Target	Recovery (%) MS	Recovery Limits (%) Low	Recovery Limits (%) High	Qualifier
Volatile Organic Compounds (QCLot: 1734889) - continued										
WT2431970-001	MW2-20	Chloroform	67-66-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	96.4 µg/L	100 µg/L	96.4	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	99.4 µg/L	100 µg/L	99.4	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	115 µg/L	100 µg/L	115	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	120 µg/L	100 µg/L	120	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	108 µg/L	100 µg/L	108	60.0	140	----
		Dichloromethane	75-09-2	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	116 µg/L	100 µg/L	116	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	121 µg/L	100 µg/L	121	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	99.1 µg/L	100 µg/L	99.1	60.0	140	----
		Ethylbenzene	100-41-4	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Hexane, n-	110-54-3	E611D	120 µg/L	100 µg/L	120	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	95 µg/L	100 µg/L	95.3	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Styrene	100-42-5	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	97.5 µg/L	100 µg/L	97.5	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	91.6 µg/L	100 µg/L	91.6	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Toluene	108-88-3	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	96.6 µg/L	100 µg/L	96.6	60.0	140	----
		Trichloroethylene	79-01-6	E611D	116 µg/L	100 µg/L	116	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	108 µg/L	100 µg/L	108	60.0	140	----
		Vinyl chloride	75-01-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	198 µg/L	200 µg/L	99.2	60.0	140	----
		Xylene, o-	95-47-6	E611D	104 µg/L	100 µg/L	104	60.0	140	----
Hydrocarbons (QCLot: 1734890)										
WT2431970-001	MW2-20	F1 (C6-C10)	----	E581.F1-L	1540 µg/L	2000 µg/L	76.9	60.0	140	----

Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2431970-001-E601.SG
Client Sample ID: MW2-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

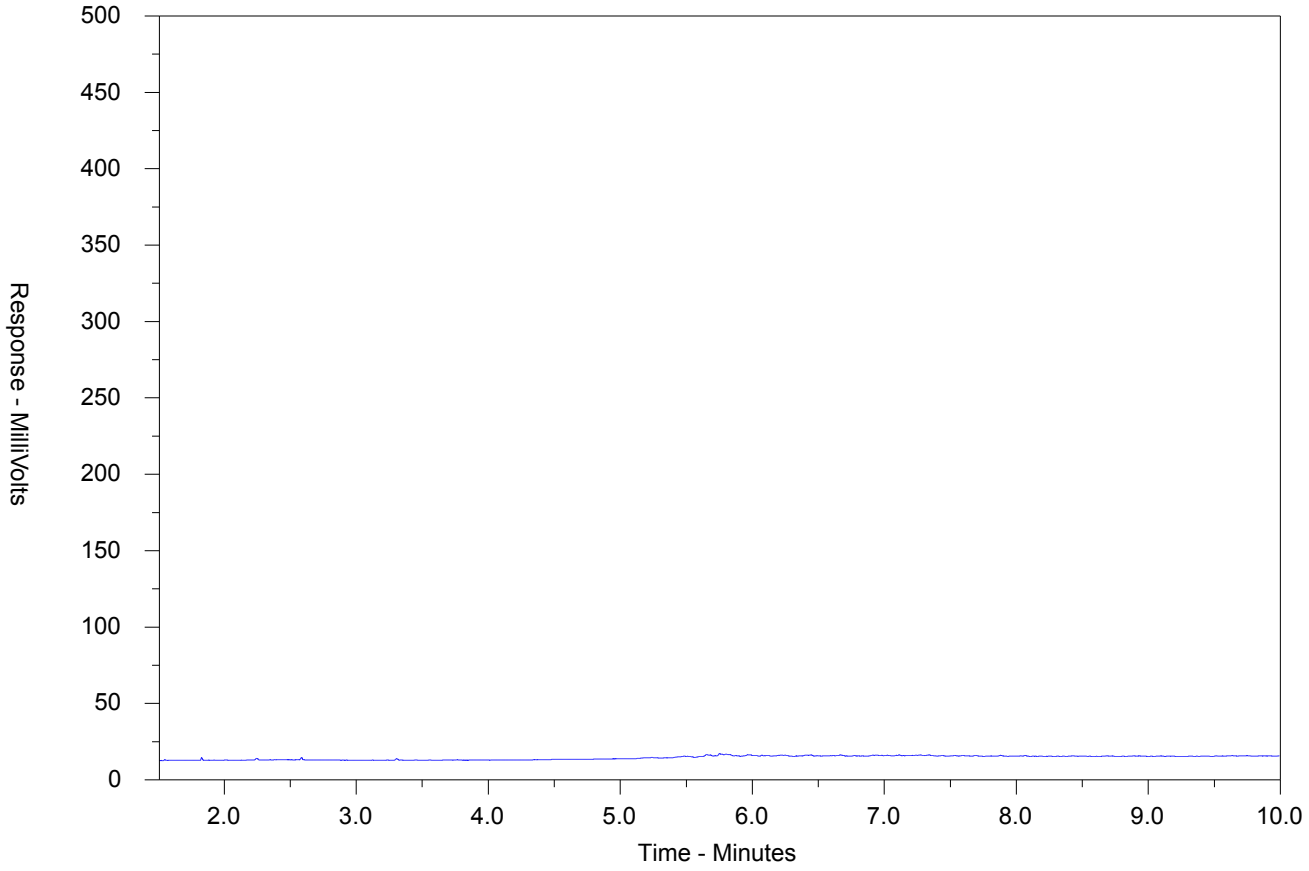
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2431970-002-E601.SG
Client Sample ID: APW1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

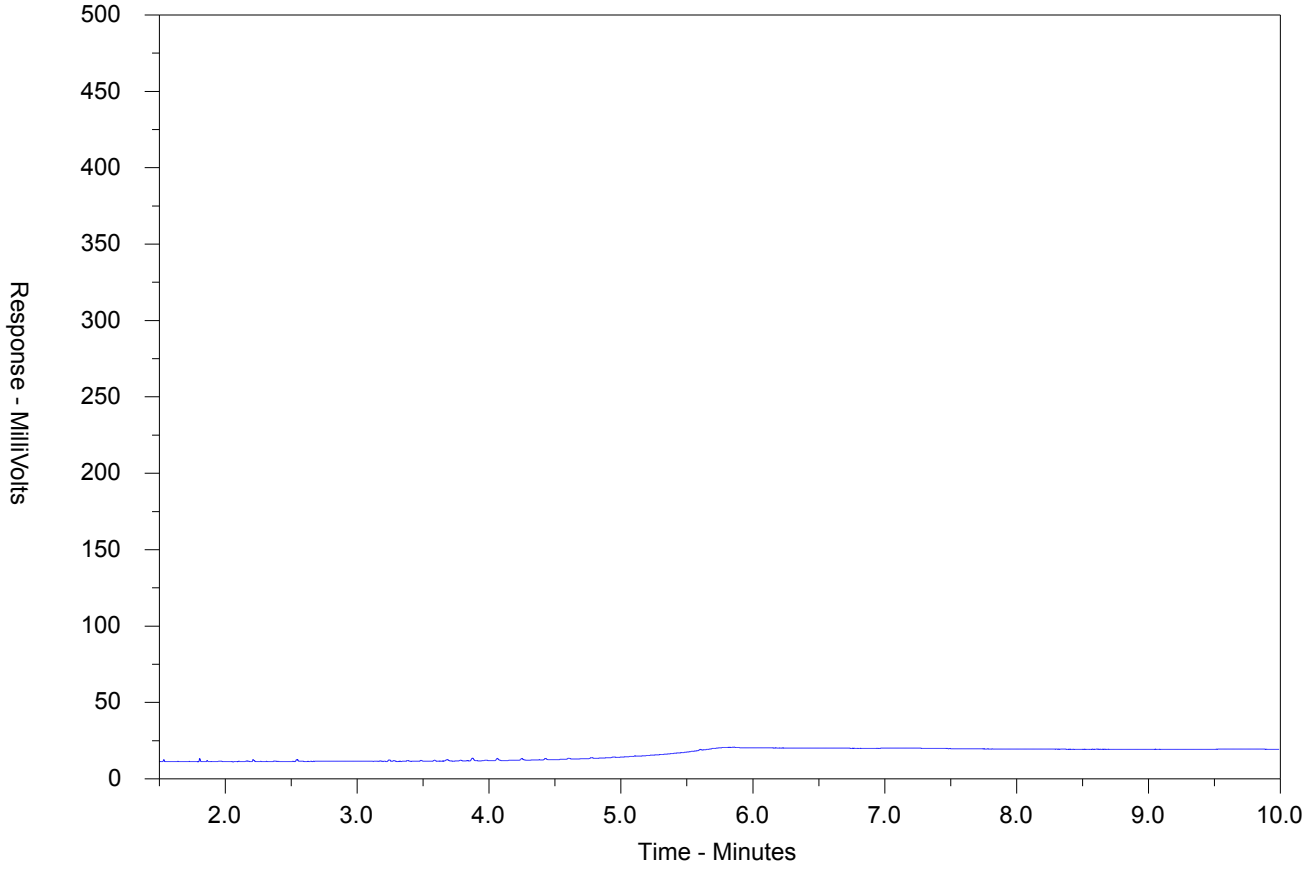
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2431970-003-E601.SG
Client Sample ID: MW1-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

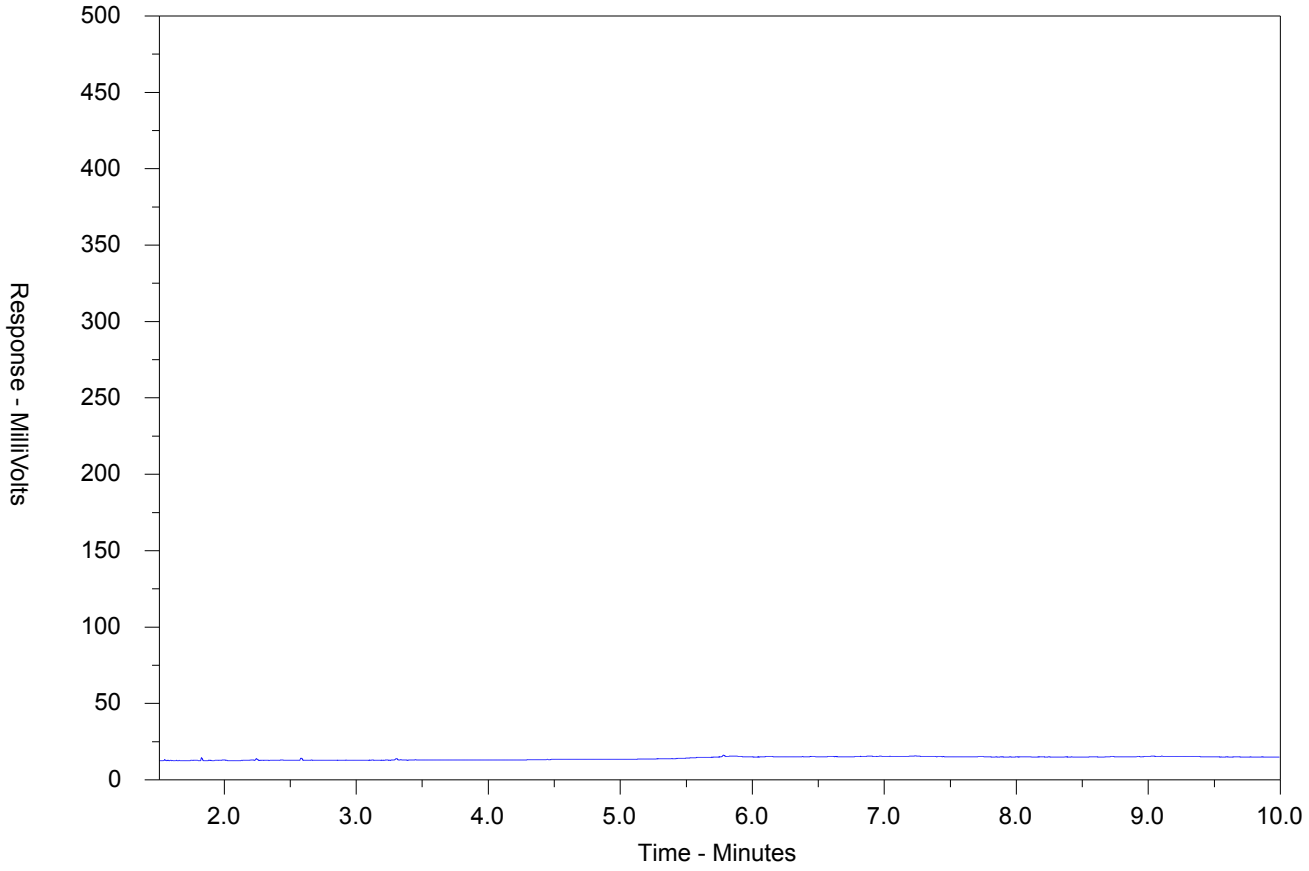
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2431970-004-E601.SG
Client Sample ID: AGW1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

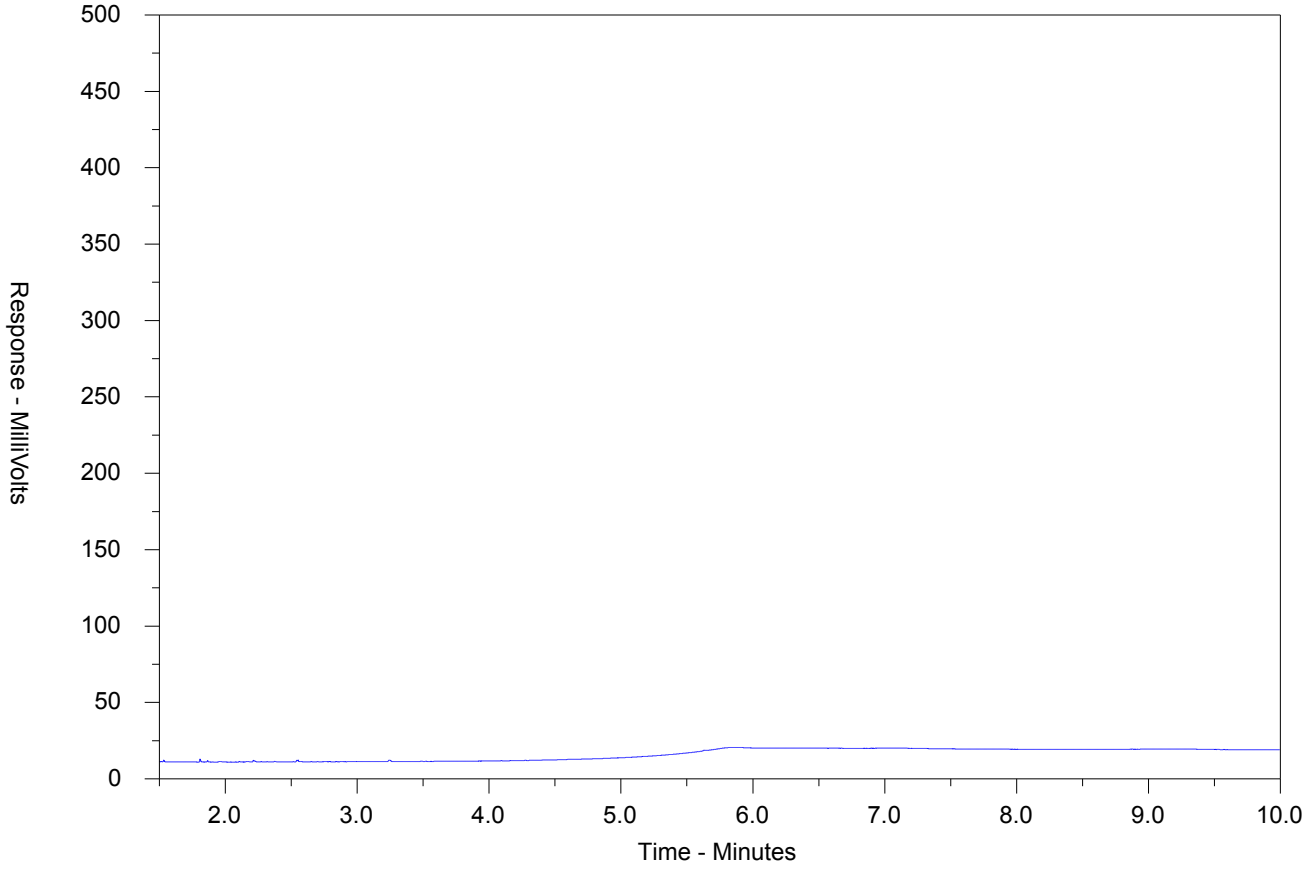
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2431970-005-E601.SG
Client Sample ID: BH213



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

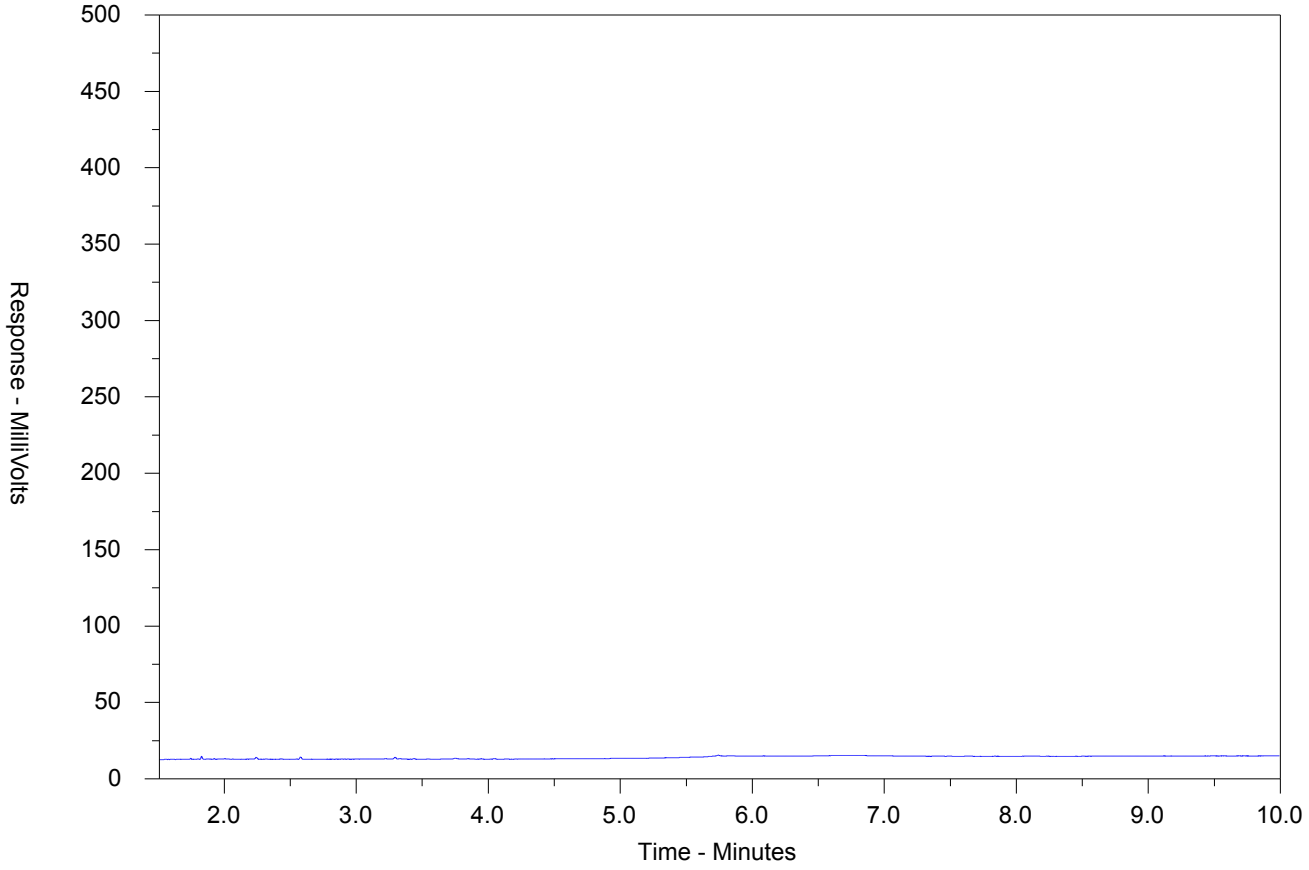
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2431970-006-E601.SG
Client Sample ID: BH219



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

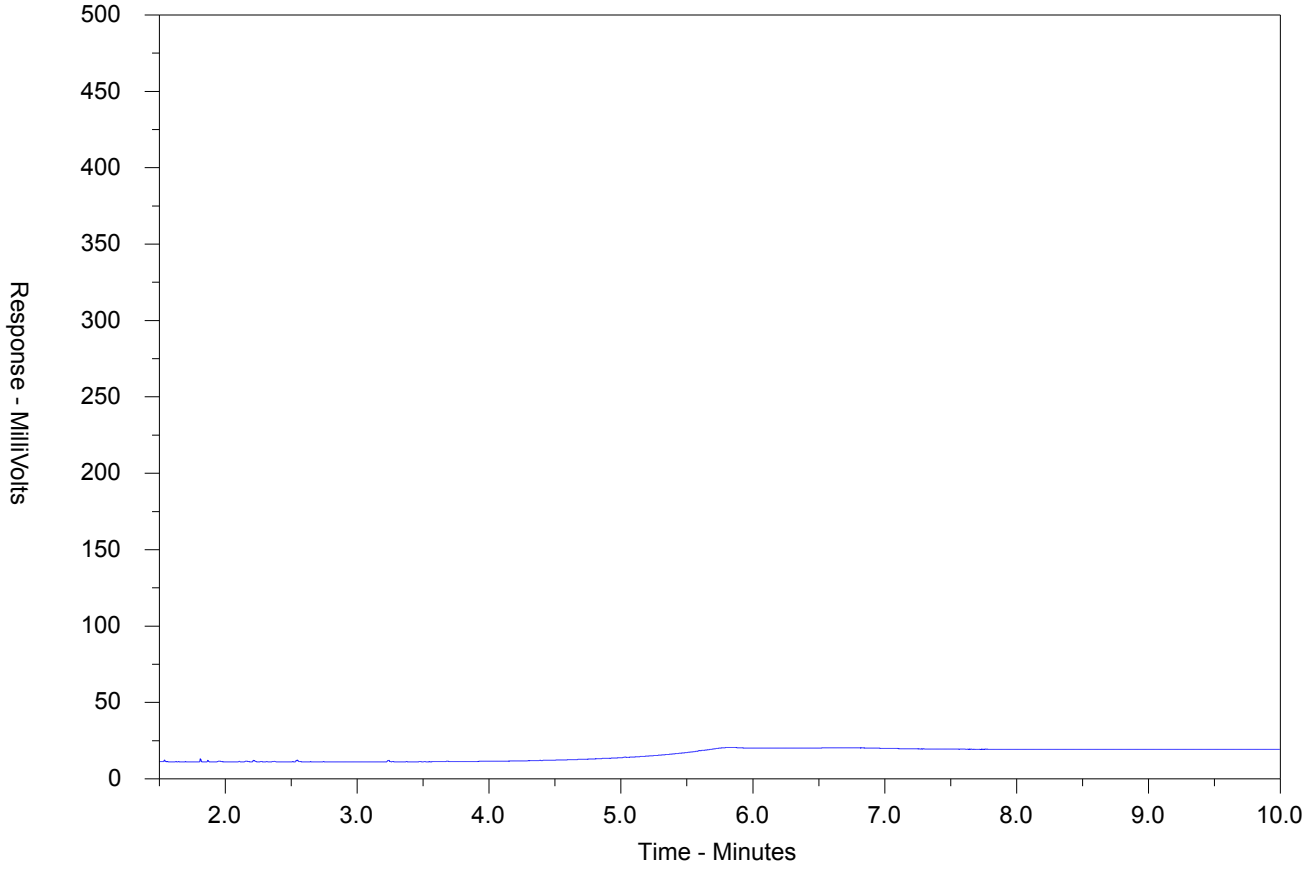
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2431970-007-E601.SG
Client Sample ID: FB



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

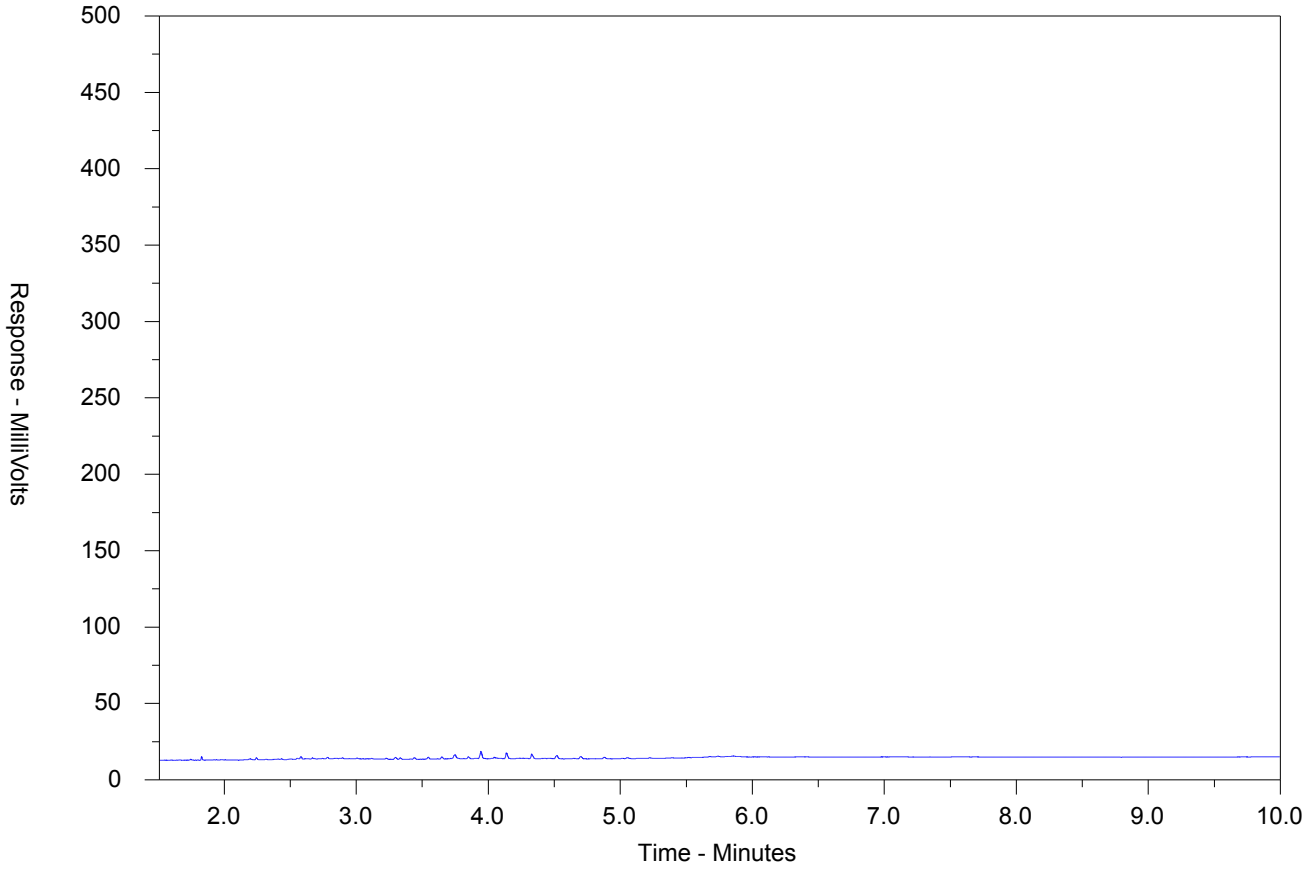
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2431970-008-E601.SG
Client Sample ID: MW3-20



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

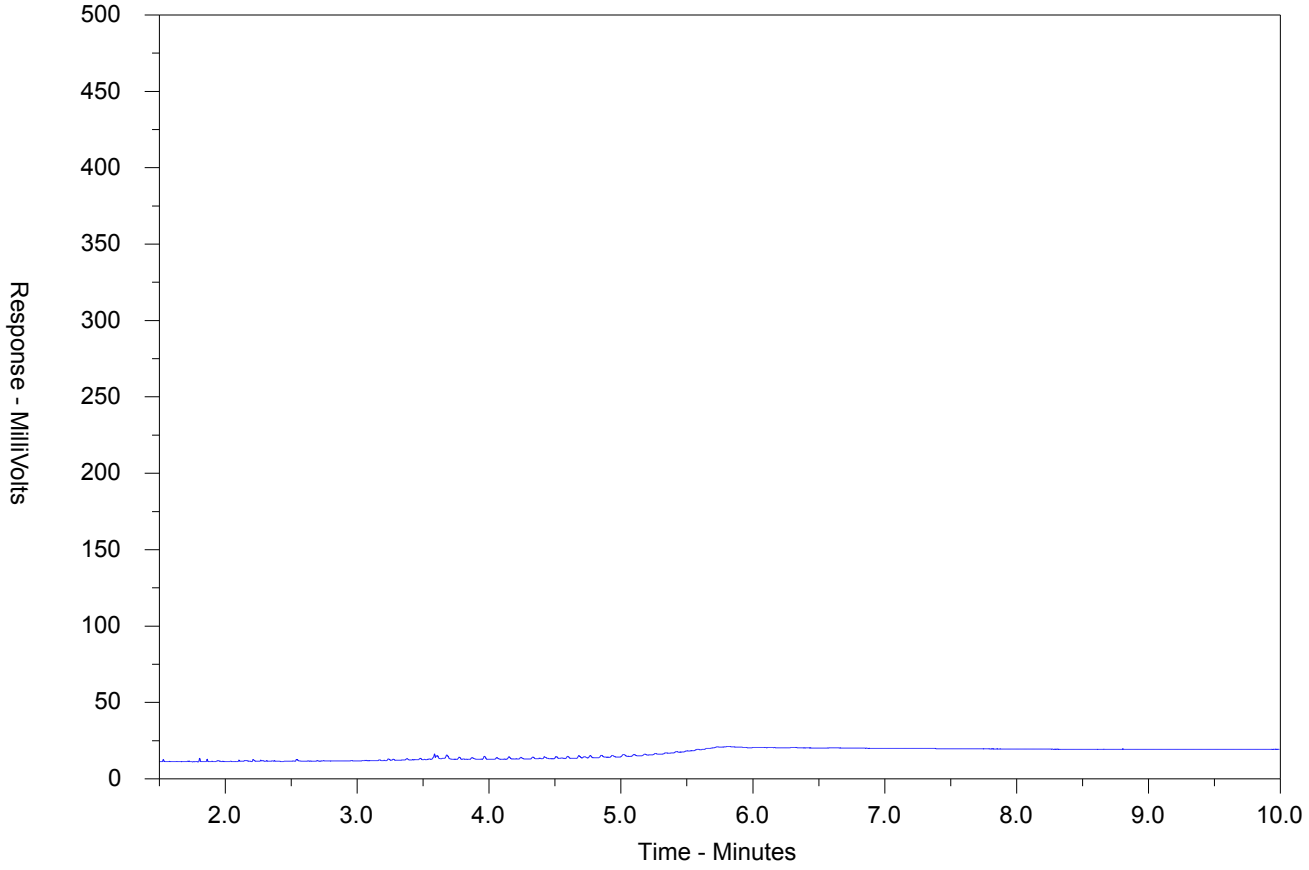
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2431970-009-E601.SG
Client Sample ID: MW4-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

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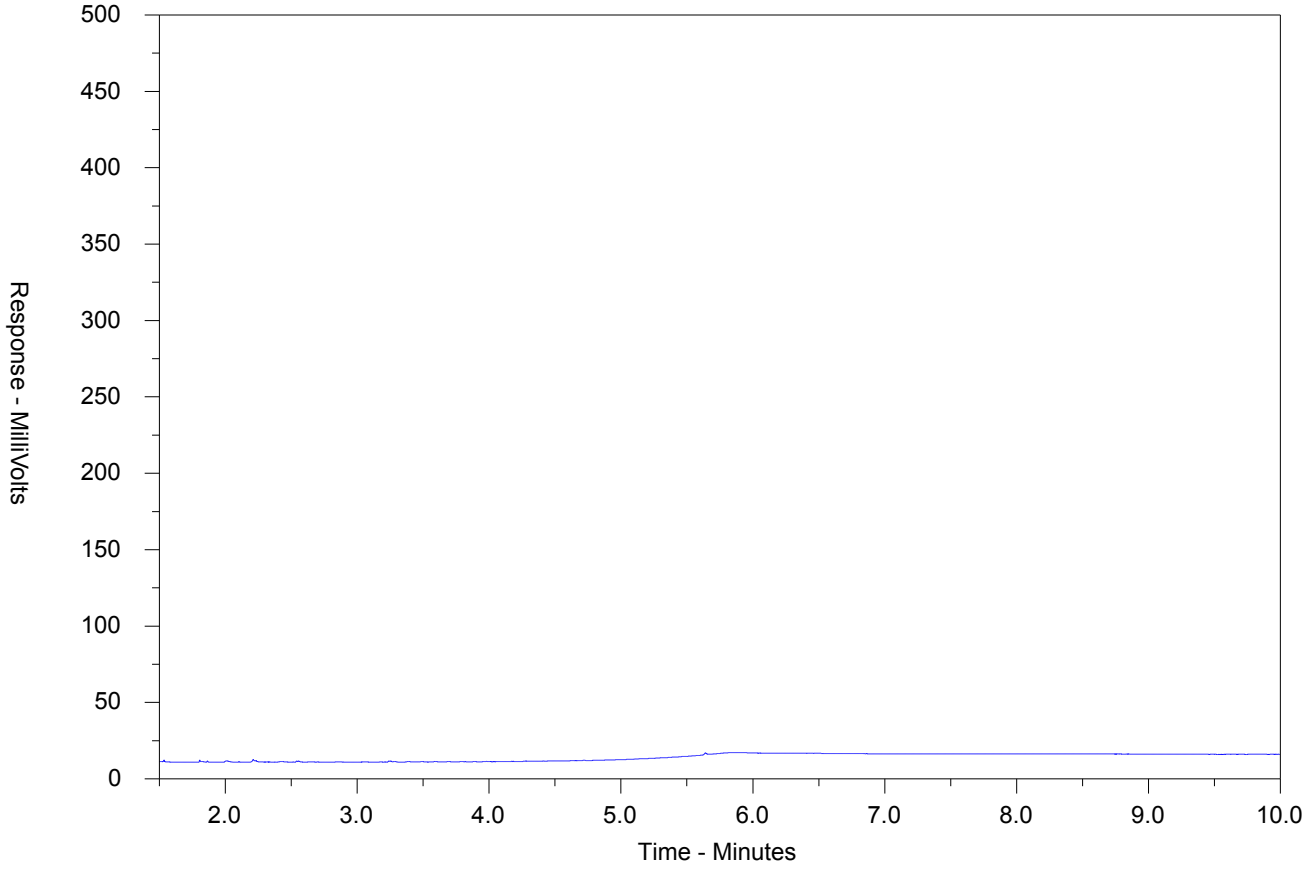
Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2431970-010-E601.SG
Client Sample ID: MW5-23



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizin hydrocarbon products that may be present in your sample.

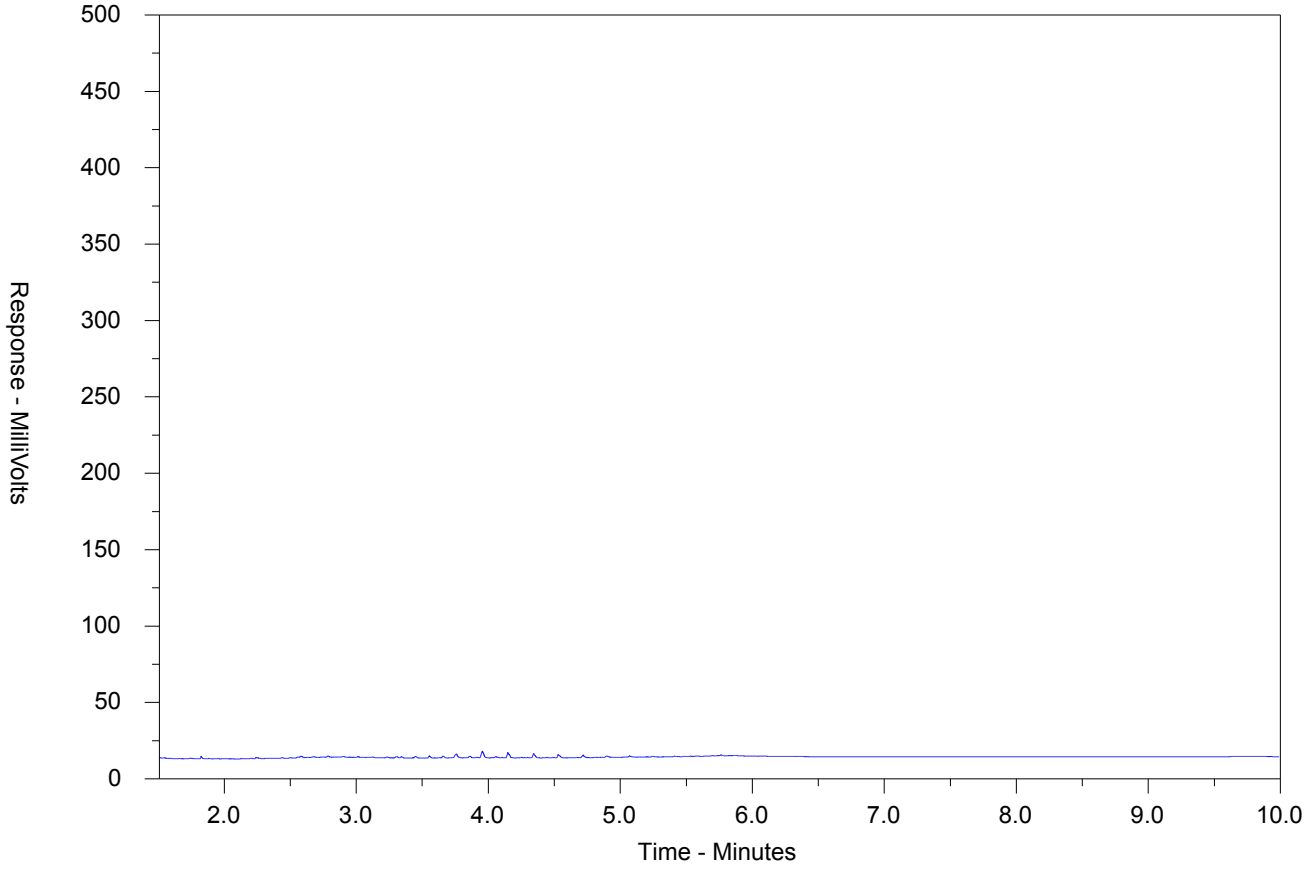
The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, th sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2431970-011-E601.SG
Client Sample ID: DUP



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

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The scale at the bottom of the chromatogram indicates the approximate retention times of commo petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary betwee samples, but general patterns and distributions will remain similar.

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Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms fro common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Canada Toll Free: 1 800 668 9878

Page 1 of 1

www.alsglobal.com

Environmental Division Waterloo
Work Order Reference
WT2431970

Telephone : + 1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: pascal.renella@ghd.com
Email 2: See SSOW/PO
Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: accountspayableCDN@ghd.com
Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge mir
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge mi
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge mi
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge mi
☐ Same day [E2] if received by 10am M-S - 200% rush surcha
☐ fees may apply to rush resuests on weekends, statutory holida
routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according t

Project Information

ALS Account # / Quote #:	WT2022GHDL1000018
Job #:	11210029
PO / AFE:	735-009459
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#:
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2431970
ALS Contact: Rick H
Sampler:

Analysis R

Indicate Filtered (F), Preserved (P) or Filtered

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	VOC, F1-F4	Dissolved Metals (Field Filter)	Dissolved Mercury (Field Filter)	Dissolved CrVI (Field Filter)	Total Cyanide	Total Oil and Grease	PAHs	SVOCs (including PAHs)	Alkalinity/CL/Nitrite/Nitrate,Sulfate	Ammonia-N,TP,Total Phenolics	TDS,Chloride	TKN,COD,DOC(Field Filter)	Hardness	Chloride	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRE	SUSPECTED HAZARD (see note
	MW2-20	25-Oct-24	9:25	Water	16	X	X	X	X	X	X	X	X						X			
	APW1		9:40																			
	MW1-20		10:15																			
	AGW1		10:30																			
	BH213		12:10																			
	BH219		12:40																			
	FB		13:50																			
	MW3-20		11:30											X	X	X	X	X				
	MW4-23		13:20																			
	MW5-23		13:40																			
	DUP		11:30		X	X	X	X	X	X	X	X	X	X	X	X	X	X				

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO
Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

Not enough water for BOD FB

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				4.4	7.9	6.1	5.7 6.4

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: [redacted]	Date: 10/25/24	Time: 1455	Received by:	Date:	Time:	Received by: [redacted]	Date: 25-Oct-24	Time: 15:15

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

P-401 CC-076/077 OC-931/932 OP-986/987 N-357 SS-NL CN-311 MM-349 VW-216

Appendix G

MECP Comments

Ministry of the Environment And Climate Change
West Central Region
Technical Support Section

119 King Street West
12th Floor
Hamilton, Ontario L8P 4Y7
Tel.: 905 521-7640
Fax: 905 521-7820

Ministère de l'Environnement et de l'Action en matière de changement climatiqu
Région du Centre-Ouest
Section d'appui technique

119 rue King ouest
12e étage
Hamilton (Ontario) L8P 4Y7
Tél. : 905 521-7640
Téléc. : 905 521-7820

Memorandum

Date: January 25, 2021

To: Lynnette Armour, Senior Environmental Officer – Guelph District Office

From: Pam Grande, Hydrogeologist – West Central Region

Re: **Review of Hydrogeological Impact Assessment in support of ECAs for Waste Processing and Industrial Sewage Works (Stormwater) for Badger Hydrovac and Daylighting Services Facility**

In preparation of this memorandum I have reviewed the following document:

- Report titled: Hydrogeologic Impact Assessment for the Badger Hydrovac and Daylighting Services Facility (in Support of an ECA). Prepared for 2374868 Ontario Inc. by GHD (dated December 16, 2020).

I have also referred to the following documents in the course of this review:

- Report titled: Stormwater Management Plan Application for an Industrial Sewage Works – Stormwater Environmental Compliance Approval. Prepared for 2374868 Ontario Inc. by GHD (dated December 21, 2020).
- Pre-Consultation Summary. Prepared for 2374868 Ontario Inc. by GHD (emailed to MECP on October 15, 2020).

Background:

I have reviewed the Hydrogeological Impact Assessment report prepared by GHD for the site located at 6678 Wellington Road 34, Wellington County. The Hydrogeological Impact Assessment report was prepared in support of Environmental Compliance Approvals (ECA) applications for Waste Processing and Industrial Sewage Works - Stormwater. I previously provided preliminary comments to the Guelph District Office regarding the Pre-Consultation Summary document prepared by GHD and submitted to the MECP via email on October 5, 2020.

2374868 Ontario Inc. operates a hydrovac soil processing facility at the site under the trade name Badger Hydrovac and Daylighting Services (Badger). Badger dispatches trucks to and from the facility to perform hydrovac services at multiple sites across Southern Ontario. Hydrovac services involve removing subsurface soils by mixing soil with potable water to develop a liquid soil slurry

that is pumped into the trucks and then transported to the site for processing. The wet soil is stockpiled at the site and the water drains off the soil by gravity drainage.

The property where the site is located is divided by zoning into two sections: a northern section zoned as Extractive Industrial and a southern section zoned as Agriculture. The southern one third of the property is currently used for an equestrian stable and riding grounds. The northern two thirds of the property is currently an aggregate pit rehabilitation area under Ministry of Natural Resources and Forestry (MNRF) Aggregate Resources Act (ARA) license No. 20085 operated by Capital Paving Inc. (Wellington Pit #5). Badger's site facility and operations are situated within the northern section zoned for extraction.

The adjacent land use to the west is an aggregate extraction pit (part of the ARA license No. 20085), to the north is agricultural land, to the east is forested conservation land owned by the County of Wellington, and to the south across Wellington Road 34 are residential and agricultural lands.

Soil Processing:

Based on the available information, pending sampling and analysis, the majority of dried stockpiled soil is used for rehabilitation/filling of the former aggregate pit in accordance with the approved ARA licence rehabilitation plan. Badger has been conducting sampling of stockpiled soil on a weekly basis since 2014 as part of the screening protocol for soil processing. According to the information provided, Badger's hydrovac services are not conducted at sites with known soil or groundwater impacts. Badger staff screen soils in the field for visual and olfactory evidence of contamination. In general, soil is not retained on site for longer than 5 weeks at any time, and soils that exceed the MECP's Table 1 – Full Depth Background Site Condition Standards for Residential/ Parkland/ Institutional/ Industrial/ Commercial/ Community Property Use for Coarse Textured Soils, are segregated and transported to an off-site MECP permitted disposal facility.

Existing Site Drainage:

The existing drainage system for the site consists of a vegetated swale which runs east to west and drains into an on-site stormwater management (SWM) pond located at the west-central property boundary. The swale and pond collect the drainage from the soil stockpiles in addition to overland stormwater runoff in the area. Figure 3 of the Storm Water Management report displays the catchment delineation areas at the property. There is also a natural pond located in the northern area of the site which collects overland runoff in that area of the property. There are no direct point source discharges of stormwater or outfalls from the property to off-site areas. It is noted that Badger is not proposing any new drainage works for the site. Badger will be submitting the application to obtain an ECA for sewage works for the existing SWM system at the site (vegetated swale and SWM pond).

Comments and Recommendations:

The intent of the proceeding review is to provide comments and recommendations regarding the above referenced document from a hydrogeological perspective to the Guelph District Office. The following review comments may be forwarded to the technical consultant.

Hydrogeological Setting:

1. The site is situated with Horseshoe Moraines physiographic region. MNRF mapping identified surficial geology at the site to be ice-contact stratified deposits of a mixture of sand, gravel, silt, sandy silt and some clay/silt layers/seams. Conceptually, GHD has described three hydrostratigraphic units at the site: an upper water bearing ice-contact stratified unit where the water table aquifer is found, a deeper overburden aquifer which may be present separated by a confining unit of silt and/or clay deposits, and an underlying bedrock aquifer comprised of the Guelph Formation. According to MECP GIS mapping, the thickness of overburden in the area is approximately 22 to 33 metres.
2. The consultant installed three monitoring wells in the overburden to evaluate whether there is an impact to the water table aquifer as a result of the soil drainage operations and to determine hydraulic characteristics of the site overburden soils. GHD installed two monitoring wells downgradient of the site operations, MW1-20 and MW2-20, and one monitoring well upgradient (background) of the site operations, MW3-20. According to borehole log information, the monitoring wells were installed at depths between 12.2 to 14.3. meters below ground surface within the ice-contact stratified deposits. GHD describes surficial native soils as consisting of layers of sandy silt, silty sand and sand in borehole logs which was consistent with MNRF surficial geology mapping.

   The depth to water table was reported to be approximately 7 to 10 metres below ground surface at the site. GHD interpreted that the shallow groundwater flow direction within the overburden to the south-southwest towards. GHD estimated the geometric mean hydraulic conductivity to be 5.8x10-4 cm/sec from in situ testing and predicted vertical hydraulic conductivity of 5.8 x 10-5 cm/sec . The average groundwater flow velocity was estimated to be 11 metres/year.
3. On-site surface water features include a vegetated swale which drains to the west to the on-site SWM pond. According to MNRF mapping, the site surficial soils infiltration rate is considered high, and therefore, there is a lower potential for runoff. Site conditions support MNRF mapping and indicate a prevalence of sand and gravels deposits in the shallow overburden and a several metre depth to the water table below grade. As the SWM pond does not have an outlet, it is inferred that the water is lost primarily through infiltration to the subsurface and to a lesser extent by evapotranspiration.

Potential Receptors:

4. Residents within the Township of Puslinch rely on groundwater wells for potable drinking water as the area is not serviced by municipal water supply. The deep overburden and shallow bedrock aquifers are the significant sources of water supply for domestic water wells in the area. The consultant conducted a desktop private water well survey, and completed on-site reconnaissance to confirm water wells on the property. GHD prepared a separate Water Well Record Search Update memorandum included in Appendix D of the Hydrogeological Impact Assessment report. GHD concluded that there are two active

water wells on the property (WWR# 6705884 and WWR# 670620). WWR# 6705884 is identified as an agricultural well for livestock screened in the deep overburden at 30.8 metres below ground surface. WWR# 670620 is identified as the "site supply well" and is completed as an open hole in bedrock at 24.1 metres below ground surface. GHD indicated that the site supply well is used primarily to fill hydrovac trucks for use at sites.

GHD did not conduct a door-to-door private water well survey for the residential properties and relied on the MECP WWR database for well installation information. GHD concluded there are approximately 13 off-site private WWRs within a 200 metre radius around the property boundary, which extends approximately 500 metres from the area of Badger's site operations. In general, the WWRs indicated that the private wells were for potable purposes and are screened within the deep overburden or shallow bedrock aquifer at depths ranging from 26.8 metres to 59.1 metres from the ground surface. Although, the current use status of the private water wells were not verified by GHD with the residents, the fact that there is no municipal supply would suggest that some or possibly all of the resident rely on these wells for potable water supply.

5. The regional bedrock aquifer unit within the Guelph Formation is utilized by the City of Cambridge and the City of Guelph for municipal water supply. It is noted that the subject property is located within the Well Head Protection Area (WHPA) – D of the City of Cambridge's Hespeler and Pinebush well fields, representing the 25 year time of travel for a contaminant to reach the well field. The Hespeler and Pinebush well fields are located about 3.8 and 4.7 kilometres southwest of the property, respectively.

<u>Groundwater Impact Assessment:</u>

6. GHD provided groundwater sampling analysis results in Table 4.1 of the hydrogeological impact assessment report for MW1-20, MW2-20 and MW3-20, for sampling events conducted in November and December 2020. GHD provided groundwater sampling analysis results for site supply wells WWR# 6705884 and WWR# 670620 from three sampling events conducted during July and August 2020 in Tables 4.2 and 4.3 of the hydrogeological impact assessment report. On-site groundwater samples were analyzed for general chemistry, total and dissolved metals, volatile organic compounds (VOCs), semi-volatiles/ polycyclic aromatic hydrocarbons/base neutral extractables (SVOCs/PAHs/BNAS), total petroleum hydrocarbons (TPH) (F1 to F4), polychlorinated biphenyls (PCBs), and oil and grease. Results of the on-site groundwater sampling analysis were reported to be below Ontario Drinking Water Quality Standards and Table 2 – Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Coarse Textured Soils.

7. GHD provided surface water sampling results from the SWM pond from January 2017 to November 2020 in Table 4.4 of the hydrogeological impact assessment report. Surface water samples were analyzed for metals, VOCs, TPH (F1 to F4), and SVOCs/PAHs/BNAs. No exceedances of Provincial Water Quality Objectives (PWQOs) or Table 2 potable groundwater standards were reported.

8. GHD provided stockpiled soil sampling results from January 2017 to November 2020 in Table 1 of the Pre-Consultation Summary document. The consultant indicated that they reviewed 65 soil sample results during this sampling period and compared them to Table 1 Full Depth Background Site Condition for Coarse Textured Soils. GHD stated that there were a few slight exceedances of Table 1 soil standards over the period of sampling.
9. GHD concluded that the operations at the site are not impacting either shallow or deep groundwater based on the on-site groundwater and surface water sampling results. The consultant concluded that in absence of impacts at the on-site wells, which are directly downgradient of the site operations, the likelihood for impact to off-site private water wells is very low. Based on the information provided, this is a reasonable conclusion in my opinion.

<u>Proposed Monitoring Program:</u>

10. GHD proposed the following monitoring program to be conducted at the site:
    a. *Groundwater sampling of MW1-20, MW2-20, and MW3-20, and two on-Site supply wells be monitored once per year for SVOCs/PAHs only.*
    b. *Surface water sampling of the operations pond be monitored once per year for SVOCs/PAHs only.*
    c. *Groundwater levels be monitored in MW1-20, MW2-20, and MW3-20 four times per year.*
    d. *It is also proposed that a monitoring program report be prepared every 5 years and provided to MECP.*

    The proposed monitoring plan is reasonable, however I recommend that the groundwater and surface water sampling be conducted at a higher frequency for the first two years to assess the seasonal changes in groundwater quality and quantity at the site. I also recommend that the parameter list be expanded to also include: VOCs, TPH and metals, in addition to SVOCs/PAHs. This will ensure that there is a comprehensive set of monitoring data for the site. I recommend that the proposed monitoring program be conducted at the site for a period of two years after which time a monitoring report shall be submitted to the MECP for review. The monitoring report should include a summary of soil stockpile sampling results over the two-year period. The monitoring report must be prepared by a Qualified Person (Hydrogeologist or Professional Engineer with relevant expertise) and include analysis and interpretation of all of the monitoring data and an updated assessment of the potential for environmental impact and a technical opinion on whether continued monitoring is necessary.

Limitations:

The purpose of the preceding review is to provide advice to the Ministry of the Environment regarding subsurface conditions based on the information provided in the above referenced documents. The conclusions, opinions and recommendations of the reviewer are based on information provided by others, except where otherwise specifically

noted. The Ministry cannot guarantee that the information that has been provided by others is accurate or complete. A lack of specific comment by the reviewer is not to be construed as endorsing the content or views expressed in the reviewed material.

I trust that this hydrogeological review is sufficient for your purposes. If you have any further comments or questions, please feel free to contact me by phone at (905) 521-7671 or by e-mail at pamela.grande@ontario.ca.

Original signed by

_____

Pamela Grande, M.Sc., P.Geo.
Hydrogeologist

cc: Belinda Koblik, WCR Water Supervisor

Appendix H

GHD Responses to MECP Comments

April 21, 2021 Reference No. 11210029

Ms. Olivia Hofland (Simpson)
Application Assessment Officer
Client Services & Permissions Branch
Ontario Ministry of the Environment, Conservation and Parks (MECP)
135 St. Clair Avenue West, 1st Floor Toronto ON M4V 1P5

Dear Ms. Hofland:

Re: 2374868 Ontario Inc. ECA Application, Stormwater Comments Information Request: MECP Ref# 1000116741

GHD Limited (GHD) has prepared this comment response letter, on behalf of 2374868 Ontario Inc. regarding the above-referenced application which was submitted to the MECP in December 2021. This letter addresses the comments received on April 12, 2021 via email and requested a response by April 21, 2021.

Specific MECP comments are listed below in italics and GHD's responses follow each comment.

MECP Comment #1

If the stormwater management facilities are discharging to the natural environment, please provide Conservation Authority clearance.

GHD Response #1

The stormwater runoff from the Site is captured and conveyed via the existing on-Site vegetated swale to an infiltration stormwater management wet pond which has no discharge. All of the stormwater runoff from the Site is lost via infiltration and evapotranspiration.

The Applicant/GHD are working with the Township of Puslinch/Wellington County to provide approval of a minor zoning change to cover all of the Site operations. As part of this process, the Township of Puslinch/Wellington County has provided the following comment:

"As the proponent is applying for an Environmental Compliance Approval (ECA) for the SWMF, it should be noted that, per policy WC-MC-3.7 of the Grand River Source Protection Plan, the Ministry of the Environment, Conservation and Parks must "to incorporate terms and conditions (for example, regular maintenance) that, when implemented, will ensure that this activity ceases to be or never becomes a significant drinking water threat. " However, updated policies related to stormwater management have been submitted to the MECP and will be approved in late 2020 or early 2021. http://www.wellingtonwater.ca/en/wswp-resources/resources/GRSPA_SPP_updated_S7-Wellington_highlighted.pdf"

There are no quantity or quality impacts to surface water and correspondingly groundwater, no off-site discharges and the stormwater management is consistent with the MNRF approved Rehabilitation Plan and the referenced GRCA policy (WC-MC-3.7*)*. GRCA will provide any comments it has on the Site operations, including the Stormwater Management Plan, to Township of Puslinch as part of the zoning approval process Therefore, the Applicant/GHD believe that the Township minor zoning change approval process is adequate and no specific GRCA approval is required.

MECP Comment #2

Please provide supporting information regarding the pre-consultation with Ministry Staff.

GHD Response #2

The MECP pre-consultation information the Applicant/GHD provided to MECP Guelph District Office and the two responses they provided (request for a Hydrogeological Assessment and the undertaking of proposed monitoring program for a period of two years after which time a monitoring report shall be submitted to the MECP for review) are provided in Attachment A. GHD's responses to comments from the MECP Guelph District Office are also included in Attachment A. Subsequently, from the MECP Guelph District Office indicated approval to proceed with the submittal of the three ECA applications (Waste, Air & Noise, and Sewage Works).

MECP Comment #3

Please provide engineering drawings both signed and stamped by a professional engineer.

GHD Response #3

GHD believes that sealed engineering drawings are not required as there are no new stormwater management works proposed at the Site. All on-Site stormwater management features are existing and no modifications are proposed at this time.

The stormwater drainage swale and infiltration pond were installed in accordance with the MNRF approved Rehabilitation Plan for the licensed aggregate pit that was formerly operated on site. Therefore, GHD believes a sealed stormwater management engineered drawings are not required.

The MNRF approved Rehabilitation Plan is included as Attachment B for reference.

MECP Comment #4

Please provide the stormwater management report, signed and stamped by a professional engineer.

GHD Response #4

Please find the signed and stamped stormwater management report included as Attachment C.

MECP Comment #5

Your application is subject to posting on the Environmental Bill of Rights (EBR) Registry. The description below will be used to create the Proposal Notice. The Ministry may change the wording as required, to meet the EBR posting requirements. Please review and verify that the below noted project description is complete and accurate.

<u>Project Description:</u>

This proposal is for a new Environmental Compliance Approval (Sewage) for 2374868 Ontario Inc. This application is for the approval of stormwater management works to serve the facility located at 6678 Wellington Road 34, Cambridge, Ontario, which receives soil mixed with approximately 40 to 60 percent potable water (liquid soil) from hydrovacing operations at multiple sites. The proposed stormwater management works consist of grassed swales and a stormwater management wet pond. The stormwater management works were designed for the collection, transmission, and treatment of hydrovac soil and stormwater runoff from the site area. The stormwater management works will discharge to an on-site infiltration pond which has no discharge outfalls.

GHD Response #5

GHD confirms that the above project description is complete and accurate and can be used for posting this application under the EBR Registry.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

[redacted]

Nishant Patel, EIT

Encl.

cc: Fred Taylor, GHD
Janusz Czuj, GHD

Attachment A
MECP Pre-Consultation Information and Responses

From:	Fred Taylor
To:	Armour, Lynnette (MECP)
Cc:	Amelia Soutar; Nishant Patel
Subject:	Re: ECA Waste Question Formal Pre-Consultation Request
Date:	Wednesday, November 4, 2020 9:34:31 AM
Attachments:	image001.png

Hi Lynnette.
Thanks for the response and information. We understand the concern and the technical requirements for a hydro geological assessment. We will proceed with preparing an assessment to be submitted with the application.
FYI as we mentioned we also are proceeding with a minor zoning amendment and during the preconsultation the recently updated Source WaterProtection Zone boundary was identified to be evaluated. This will be included in the Hydrogeologist all assessment.
Thanks
Fred

Fred Taylor A GHD Principal
P. Eng., LSP, LEP, LRS, QP

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Proudly Employee Owned

455 Phillip Street, Waterloo ON N2L 3X2
45 Farmington Valley Road, Plainville CT 06062
D: 519-340-4222 E: Fred.Taylor@ghd.com

—> The Power of Commitment

On Nov 4, 2020, at 8:30 AM, Armour, Lynnette (MECP) <Lynnette.Armour@ontario.ca> wrote:

Good Morning Fred,

The Ministry's technical support section has reviewed the Pre-Consultation Summary prepared by GHD on behalf of 2374868 Ontario Inc., for the site located at 6678 Wellington Road 34 in Puslinch.

As a result of the review, the Ministry is directing you to the Ministry's guide to applying for an environmental compliance approval under Part C: Supporting Documentation and Technical Requirements, Section 9 – Supporting Documentation: https://www.ontario.ca/document/guide-applying-environmental-compliance-approval/supporting-documentation-and-technical-requirements#section-1

Specifically, Subsections 4.0 describes the application requirements for Industrial Sewage Works and 5.0 describes the application requirements for Waste Disposal Sites. For each ECA subject area, there is a requirement to assess the impacts of the proposed works to the environment, including groundwater resources. For Industrial Sewage Works ECA applications, Subsection 4.10.4 describes the Environmental Impact Analysis including a groundwater impact assessment. Subsection 5.4 describes the minimum requirements of the Hydrogeological Report that is required to be submitted in support of an ECA for Waste Disposal Site. For both ECA subject areas, it is noted that the applicant "must provide written confirmation from the Regional Technical Support Section (RTSS) of the appropriate ministry regional office that the required reports – including groundwater requirements (final effluent discharge criteria) and contaminant attenuation zone (CAZ) – are reviewed and sufficient when you submit your ECA application."

Although some sampling data was provided in Table 2 of the Pre-Consultation Summary (Soil and surface water), there was no specific assessment of groundwater and the potential for impact to groundwater. As the Township of Puslinch is not serviced by Municipal water supply, the residents rely on groundwater for potable drinking water supply. As such, it is imperative that the applicant complete a hydrogeological impact assessment taking into account the waste and industrial sewage works operations at the site and the potential for impact to groundwater receptors. The hydrogeological impact assessment should be prepared by a qualified person, a hydrogeologist with Professional Geoscientist designation or a Professional Engineer with relevant hydrogeological expertise. The hydrogeological impact assessment should include, but not limited to, a summary of the site geological/hydrogeological conditions, depth to water table, groundwater flow direction, hydraulic conductivities, vertical and horizontal gradients, identification of downgradient private water wells onsite and offisite and an assessment of the potential for impact to groundwater receptors. The consultant should also determine whether groundwater monitoring is necessary. Historical environmental investigations conduced at the site should be summarized with references provided to the MECP.

Please prepare and submit a report as outlined above for technical review. Once the report is received and reviewed a pre consultation meeting can be arranged.

Thanks,

Lynnette Armour
Provincial Officer
Ministry of the Environment, Conservation and Parks
Drinking Water and Environmental Compliance Division
West Central Region, Guelph District Office
Tel: 519-993-6449 or 1-800-265-8658

Fax: 519-826-4286

We want to hear from you. How is my service? You can provide feedback at 1-888-745-8888

From: Fred Taylor <Fred.Taylor@ghd.com>
Sent: October 15, 2020 1:29 PM
To: Armour, Lynnette (MECP) <Lynnette.Armour@ontario.ca>
Cc: Amelia Soutar <Amelia.Soutar@ghd.com>; Nishant Patel <Nishantkumar.Patel@ghd.com>
Subject: RE: ECA Waste Question Formal Pre-Consultation Request

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Lynnette:
Please find attached a summary to support a formal pre-consultation for our pending ECA (Waste Processing) application.
It should provide enough information to describe the Site, the operations and what we are applying for.
I think I recall that you said that you would be willing to set up a day/time with Approvals and the District Office?; if not we can take the lead on that.

Additionally, we believe that we also need an ECA (Industrial Sewage Works) for stormwater management and we are preparing a similar summary for that.

Finally, we have looked at Air and Noise and will be submitting an ECA application for that as well.
However, the impacts are minimal and we don't believe that we need to pre-consult for this one.

Thanks for your assistance.

Fred

Fred Taylor P Eng, LSP, LEP, LRS, QP

Principal |North America |Environmental and Engineering

GHD

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<image001.png>

From: Fred Taylor
Sent: Tuesday, October 6, 2020 10:02 AM
To: Armour, Lynnette (MECP) <Lynnette.Armour@ontario.ca>
Subject: Re: ECA Waste Question

Hi Lynnette.
Thanks that's good to know.
It's probably best if we reach out to the MNRF contact for the current and closed pits since they know the sites, and see if we can set up a call.
Fred

Fred Taylor
P. Eng., LSP, LEP, LRS, QP
Principal
GHD
Proudly Employee Owned
Telephone: 519-340-4222/860-747-1800
Cell: 519-572-5330
455 Phillip Street, Waterloo ON N2L 3X2
45 Farmington Valley Road, Plainville CT 06062

> On Oct 6, 2020, at 9:04 AM, Armour, Lynnette (MECP) <Lynnette.Armour@ontario.ca> wrote:
>
> Hi Fred,
>
> MECP can issue an ECA for a MNRF licensed site. I would recommend, that MNRF is involved to get their input.
>
> Is there someone you have been discussing this site with at MNRF? If you need a contact, I could help you with this. Would you like to have a joint discussion?

Let me know.
Thanks,

Lynnette Armour
Provincial Officer
Ministry of the Environment, Conservation and Parks
Drinking Water and Environmental Compliance Division
West Central Region, Guelph District Office
Tel: 519-993-6449 or 1-800-265-8658
Fax: 519-826-4286

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From: Fred Taylor <Fred.Taylor@ghd.com>
Sent: October 05, 2020 4:47 PM
To: Armour, Lynnette (MECP) <Lynnette.Armour@ontario.ca>
Subject: ECA Waste Question

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Lynnette: We have been reviewing the site that we discussed last week more before we proceed with a formal pre-consultation.
We have confirmed that the operations are all within the closed aggregate pit boundary.
I don't believe MECP would or can issue an ECA for a MNR licensed site? But I wanted to ask you for input on this question before we go any further.
Perhaps the preferred option is for us to amend the MNR approved rehabilitation plan to include the specific operations beyond soil placement which is already allowed.
We are going to ask the Township the same question as the EX zoning also does cover the approved rehabilitation plan.
Thanks
Fred

Fred Taylor P Eng, LSP, LEP, LRS, QP

Principal |North America |Environmental and Engineering

GHD

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Nishant Patel

Subject: RE: 2374868 Ontario Inc 6678 County Road 34 Hydrogeological Impact Assessment and SWM Reports

CompleteRepository: 011205096
Description: OPG-PROP-Lambton and Nanicoke
DISABLEFILINGSTATUS: 1
JobNo: 12050
OperatingCentre: 01
RepoEmail: 011205096@ghd.com
RepoType: Proposal
SubJob: 96

From: Armour, Lynnette (MECP) <Lynnette.Armour@ontario.ca>
Sent: Tuesday, January 26, 2021 8:16 AM
To: Fred Taylor <Fred.Taylor@ghd.com>
Subject: RE: 2374868 Ontario Inc 6678 County Road 34 Hydrogeological Impact Assessment and SWM Reports

Hi Fred,

Please see the attached technical review. If you have any questions please let me know.

Thanks,

Lynnette Armour
Provincial Officer
Ministry of the Environment, Conservation and Parks
Drinking Water and Environmental Compliance Division
West Central Region, Guelph District Office
Tel: 519-993-6449 or 1-800-265-8658
Fax: 519-826-4286

We want to hear from you. How is my service? You can provide feedback at 1-888-745-8888

From: Fred Taylor <Fred.Taylor@ghd.com>
Sent: January 11, 2021 4:22 PM
To: Armour, Lynnette (MECP) <Lynnette.Armour@ontario.ca>
Subject: 2374868 Ontario Inc 6678 County Road 34 Hydrogeological Impact Assessment and SWM Reports

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Hi Lynnette:
I'm following up to see how the 2 technical reviews are proceeding.
Thanks
Fred

FRED TAYLOR | A GHD PRINCIPAL
P.Eng, LEP, LSP, LRS, QP
North America | Engineering | Future Energy | Environmental

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45 Farmington Valley Drive, Plainville, CT 06062
D 519 340 4222 **E** fred.taylor@ghd.com

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From: Fred Taylor
Sent: Monday, December 21, 2020 5:08 PM
To: Lynnette Armour (lynnette.armour@ontario.ca) <lynnette.armour@ontario.ca>
Cc: Nishant Patel <Nishantkumar.Patel@ghd.com>; Amelia Soutar <Amelia.Soutar@ghd.com>
Subject: 2374868 Ontario Inc SWM Report GHD file(s) . . . (Sender Copy)

Hi Lynnette:
Below is a link to the large file I just send you.
Please confirm that you received it and were able to download it.
Happy holidays.

Thanks
Fred

FRED TAYLOR | A GHD PRINCIPAL
P.Eng, LEP, LSP, LRS, QP
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From: files@ghd.sendthisfile.com <files@ghd.sendthisfile.com>
Sent: Monday, December 21, 2020 5:06 PM
To: Fred Taylor <Fred.Taylor@ghd.com>
Subject: GHD file(s) . . . (Sender Copy)

Sender: fred.taylor@ghd.com
Recipient: lynnette.armour@ontario.ca
Upload Date: 2020-12-21 16:05:50.0

Subject: GHD file(s) . . . (Sender Copy)

Message: Hi Lynnette: Attached is the SWM report for 2374868 Ontario Inc for technical review.
thanks
Fred

Use the following links to download your file(s).

https://ghd.sendthisfile.com/UCarJmz0zJ5vbtvNqhzDRYyF

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Ministry of the Environment And Climate Change
West Central Region
Technical Support Section

119 King Street West
12th Floor
Hamilton, Ontario L8P 4Y7
Tel.: 905 521-7640
Fax: 905 521-7820

Ministère de l'Environnement et de l'Action en matière de changement climatiqu
Région du Centre-Ouest
Section d'appui technique

119 rue King ouest
12e étage
Hamilton (Ontario) L8P 4Y7
Tél. : 905 521-7640
Téléc. : 905 521-7820

Memorandum

Date: January 25, 2021

To: Lynnette Armour, Senior Environmental Officer – Guelph District Office

From: Pam Grande, Hydrogeologist – West Central Region

Re: **Review of Hydrogeological Impact Assessment in support of ECAs for Waste Processing and Industrial Sewage Works (Stormwater) for Badger Hydrovac and Daylighting Services Facility**

In preparation of this memorandum I have reviewed the following document:

- Report titled: Hydrogeologic Impact Assessment for the Badger Hydrovac and Daylighting Services Facility (in Support of an ECA). Prepared for 2374868 Ontario Inc. by GHD (dated December 16, 2020).

I have also referred to the following documents in the course of this review:

- Report titled: Stormwater Management Plan Application for an Industrial Sewage Works – Stormwater Environmental Compliance Approval. Prepared for 2374868 Ontario Inc. by GHD (dated December 21, 2020).
- Pre-Consultation Summary. Prepared for 2374868 Ontario Inc. by GHD (emailed to MECP on October 15, 2020).

Background:

I have reviewed the Hydrogeological Impact Assessment report prepared by GHD for the site located at 6678 Wellington Road 34, Wellington County. The Hydrogeological Impact Assessment report was prepared in support of Environmental Compliance Approvals (ECA) applications for Waste Processing and Industrial Sewage Works - Stormwater. I previously provided preliminary comments to the Guelph District Office regarding the Pre-Consultation Summary document prepared by GHD and submitted to the MECP via email on October 5, 2020.

2374868 Ontario Inc. operates a hydrovac soil processing facility at the site under the trade name Badger Hydrovac and Daylighting Services (Badger). Badger dispatches trucks to and from the facility to perform hydrovac services at multiple sites across Southern Ontario. Hydrovac services involve removing subsurface soils by mixing soil with potable water to develop a liquid soil slurry

that is pumped into the trucks and then transported to the site for processing. The wet soil is stockpiled at the site and the water drains off the soil by gravity drainage.

The property where the site is located is divided by zoning into two sections: a northern section zoned as Extractive Industrial and a southern section zoned as Agriculture. The southern one third of the property is currently used for an equestrian stable and riding grounds. The northern two thirds of the property is currently an aggregate pit rehabilitation area under Ministry of Natural Resources and Forestry (MNRF) Aggregate Resources Act (ARA) license No. 20085 operated by Capital Paving Inc. (Wellington Pit #5). Badger's site facility and operations are situated within the northern section zoned for extraction.

The adjacent land use to the west is an aggregate extraction pit (part of the ARA license No. 20085), to the north is agricultural land, to the east is forested conservation land owned by the County of Wellington, and to the south across Wellington Road 34 are residential and agricultural lands.

Soil Processing:

Based on the available information, pending sampling and analysis, the majority of dried stockpiled soil is used for rehabilitation/filling of the former aggregate pit in accordance with the approved ARA licence rehabilitation plan. Badger has been conducting sampling of stockpiled soil on a weekly basis since 2014 as part of the screening protocol for soil processing. According to the information provided, Badger's hydrovac services are not conducted at sites with known soil or groundwater impacts. Badger staff screen soils in the field for visual and olfactory evidence of contamination. In general, soil is not retained on site for longer than 5 weeks at any time, and soils that exceed the MECP's Table 1 – Full Depth Background Site Condition Standards for Residential/ Parkland/ Institutional/ Industrial/ Commercial/ Community Property Use for Coarse Textured Soils, are segregated and transported to an off-site MECP permitted disposal facility.

Existing Site Drainage:

The existing drainage system for the site consists of a vegetated swale which runs east to west and drains into an on-site stormwater management (SWM) pond located at the west-central property boundary. The swale and pond collect the drainage from the soil stockpiles in addition to overland stormwater runoff in the area. Figure 3 of the Storm Water Management report displays the catchment delineation areas at the property. There is also a natural pond located in the northern area of the site which collects overland runoff in that area of the property. There are no direct point source discharges of stormwater or outfalls from the property to off-site areas. It is noted that Badger is not proposing any new drainage works for the site. Badger will be submitting the application to obtain an ECA for sewage works for the existing SWM system at the site (vegetated swale and SWM pond).

Comments and Recommendations:

The intent of the proceeding review is to provide comments and recommendations regarding the above referenced document from a hydrogeological perspective to the Guelph District Office. The following review comments may be forwarded to the technical consultant.

Hydrogeological Setting:

1. The site is situated with Horseshoe Moraines physiographic region. MNRF mapping identified surficial geology at the site to be ice-contact stratified deposits of a mixture of sand, gravel, silt, sandy silt and some clay/silt layers/seams. Conceptually, GHD has described three hydrostratigraphic units at the site: an upper water bearing ice-contact stratified unit where the water table aquifer is found, a deeper overburden aquifer which may be present separated by a confining unit of silt and/or clay deposits, and an underlying bedrock aquifer comprised of the Guelph Formation. According to MECP GIS mapping, the thickness of overburden in the area is approximately 22 to 33 metres.
2. The consultant installed three monitoring wells in the overburden to evaluate whether there is an impact to the water table aquifer as a result of the soil drainage operations and to determine hydraulic characteristics of the site overburden soils. GHD installed two monitoring wells downgradient of the site operations, MW1-20 and MW2-20, and one monitoring well upgradient (background) of the site operations, MW3-20. According to borehole log information, the monitoring wells were installed at depths between 12.2 to 14.3. meters below ground surface within the ice-contact stratified deposits. GHD describes surficial native soils as consisting of layers of sandy silt, silty sand and sand in borehole logs which was consistent with MNRF surficial geology mapping.

   The depth to water table was reported to be approximately 7 to 10 metres below ground surface at the site. GHD interpreted that the shallow groundwater flow direction within the overburden to the south-southwest towards. GHD estimated the geometric mean hydraulic conductivity to be 5.8x10-4 cm/sec from in situ testing and predicted vertical hydraulic conductivity of 5.8 x 10-5 cm/sec . The average groundwater flow velocity was estimated to be 11 metres/year.
3. On-site surface water features include a vegetated swale which drains to the west to the on-site SWM pond. According to MNRF mapping, the site surficial soils infiltration rate is considered high, and therefore, there is a lower potential for runoff. Site conditions support MNRF mapping and indicate a prevalence of sand and gravels deposits in the shallow overburden and a several metre depth to the water table below grade. As the SWM pond does not have an outlet, it is inferred that the water is lost primarily through infiltration to the subsurface and to a lesser extent by evapotranspiration.

Potential Receptors:

4. Residents within the Township of Puslinch rely on groundwater wells for potable drinking water as the area is not serviced by municipal water supply. The deep overburden and shallow bedrock aquifers are the significant sources of water supply for domestic water wells in the area. The consultant conducted a desktop private water well survey, and completed on-site reconnaissance to confirm water wells on the property. GHD prepared a separate Water Well Record Search Update memorandum included in Appendix D of the Hydrogeological Impact Assessment report. GHD concluded that there are two active

water wells on the property (WWR# 6705884 and WWR# 670620). WWR# 6705884 is identified as an agricultural well for livestock screened in the deep overburden at 30.8 metres below ground surface. WWR# 670620 is identified as the "site supply well" and is completed as an open hole in bedrock at 24.1 metres below ground surface. GHD indicated that the site supply well is used primarily to fill hydrovac trucks for use at sites.

GHD did not conduct a door-to-door private water well survey for the residential properties and relied on the MECP WWR database for well installation information. GHD concluded there are approximately 13 off-site private WWRs within a 200 metre radius around the property boundary, which extends approximately 500 metres from the area of Badger's site operations. In general, the WWRs indicated that the private wells were for potable purposes and are screened within the deep overburden or shallow bedrock aquifer at depths ranging from 26.8 metres to 59.1 metres from the ground surface. Although, the current use status of the private water wells were not verified by GHD with the residents, the fact that there is no municipal supply would suggest that some or possibly all of the resident rely on these wells for potable water supply.

5. The regional bedrock aquifer unit within the Guelph Formation is utilized by the City of Cambridge and the City of Guelph for municipal water supply. It is noted that the subject property is located within the Well Head Protection Area (WHPA) – D of the City of Cambridge's Hespeler and Pinebush well fields, representing the 25 year time of travel for a contaminant to reach the well field. The Hespeler and Pinebush well fields are located about 3.8 and 4.7 kilometres southwest of the property, respectively.

<u>Groundwater Impact Assessment:</u>

6. GHD provided groundwater sampling analysis results in Table 4.1 of the hydrogeological impact assessment report for MW1-20, MW2-20 and MW3-20, for sampling events conducted in November and December 2020. GHD provided groundwater sampling analysis results for site supply wells WWR# 6705884 and WWR# 670620 from three sampling events conducted during July and August 2020 in Tables 4.2 and 4.3 of the hydrogeological impact assessment report. On-site groundwater samples were analyzed for general chemistry, total and dissolved metals, volatile organic compounds (VOCs), semi-volatiles/ polycyclic aromatic hydrocarbons/base neutral extractables (SVOCs/PAHs/BNAS), total petroleum hydrocarbons (TPH) (F1 to F4), polychlorinated biphenyls (PCBs), and oil and grease. Results of the on-site groundwater sampling analysis were reported to be below Ontario Drinking Water Quality Standards and Table 2 – Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Coarse Textured Soils.

7. GHD provided surface water sampling results from the SWM pond from January 2017 to November 2020 in Table 4.4 of the hydrogeological impact assessment report. Surface water samples were analyzed for metals, VOCs, TPH (F1 to F4), and SVOCs/PAHs/BNAs. No exceedances of Provincial Water Quality Objectives (PWQOs) or Table 2 potable groundwater standards were reported.

8. GHD provided stockpiled soil sampling results from January 2017 to November 2020 in Table 1 of the Pre-Consultation Summary document. The consultant indicated that they reviewed 65 soil sample results during this sampling period and compared them to Table 1 Full Depth Background Site Condition for Coarse Textured Soils. GHD stated that there were a few slight exceedances of Table 1 soil standards over the period of sampling.
9. GHD concluded that the operations at the site are not impacting either shallow or deep groundwater based on the on-site groundwater and surface water sampling results. The consultant concluded that in absence of impacts at the on-site wells, which are directly downgradient of the site operations, the likelihood for impact to off-site private water wells is very low. Based on the information provided, this is a reasonable conclusion in my opinion.

<u>Proposed Monitoring Program:</u>

10. GHD proposed the following monitoring program to be conducted at the site:
    a. *Groundwater sampling of MW1-20, MW2-20, and MW3-20, and two on-Site supply wells be monitored once per year for SVOCs/PAHs only.*
    b. *Surface water sampling of the operations pond be monitored once per year for SVOCs/PAHs only.*
    c. *Groundwater levels be monitored in MW1-20, MW2-20, and MW3-20 four times per year.*
    d. *It is also proposed that a monitoring program report be prepared every 5 years and provided to MECP.*

    The proposed monitoring plan is reasonable, however I recommend that the groundwater and surface water sampling be conducted at a higher frequency for the first two years to assess the seasonal changes in groundwater quality and quantity at the site. I also recommend that the parameter list be expanded to also include: VOCs, TPH and metals, in addition to SVOCs/PAHs. This will ensure that there is a comprehensive set of monitoring data for the site. I recommend that the proposed monitoring program be conducted at the site for a period of two years after which time a monitoring report shall be submitted to the MECP for review. The monitoring report should include a summary of soil stockpile sampling results over the two-year period. The monitoring report must be prepared by a Qualified Person (Hydrogeologist or Professional Engineer with relevant expertise) and include analysis and interpretation of all of the monitoring data and an updated assessment of the potential for environmental impact and a technical opinion on whether continued monitoring is necessary.

Limitations:

The purpose of the preceding review is to provide advice to the Ministry of the Environment regarding subsurface conditions based on the information provided in the above referenced documents. The conclusions, opinions and recommendations of the reviewer are based on information provided by others, except where otherwise specifically

noted. The Ministry cannot guarantee that the information that has been provided by others is accurate or complete. A lack of specific comment by the reviewer is not to be construed as endorsing the content or views expressed in the reviewed material.

I trust that this hydrogeological review is sufficient for your purposes. If you have any further comments or questions, please feel free to contact me by phone at (905) 521-7671 or by e-mail at pamela.grande@ontario.ca.

Original signed by

_____

Pamela Grande, M.Sc., P.Geo.
Hydrogeologist

cc: Belinda Koblik, WCR Water Supervisor

February 1, 2021 Reference No. 11210029

Ms. Lynnette Armour
Senior Environmental Officer
Ontario Ministry of the Environment, Conservation and Parks
1 Stone Road West
Guelph, Ontario
N1G 4Y2

Dear Ms. Armour:

Re: Response to MECP Technical Review Comments
Badger Daylighting & Hydrovac Services
6678 Wellington Road 34, Cambridge, Ontario (Site or Facility)

GHD Limited (GHD) has prepared this letter, on behalf of 2374868 Ontario Inc., to provide responses to the above-referenced comments which were received in a memorandum dated January 21, 2021. The memorandum provides the MECP West Central Region's technical review of the Hydrogeological Impact Assessment (GHD, December 2020) submitted in support of ECAs for Waste Processing and Industrial Sewage Works (Stormwater) for the Facility. The review also includes the review of the Stormwater Management Plan (GHD, December 2021) and a pre-consultation summary (GHD, October 2020).

The MECP's technical reviewed provide general concurrence with the information provided in the three submittals. Based on this review, the MECP District Office requested that a response be provided to the review comments and that the response would satisfy and complete the ECA pre-consultation requirements. Therefore, 2374868 Ontario Inc./GHD also have completed the preparation of the ECA applications and this response is included in the applications. Copies of the ECA applications also are being submitted to the MECP Guelph District Office.

For convenience, the MECP's review and comments on the Proposed Monitoring Program provided in the Hydrogeological Impact Assessment Report are copied in italics below and 2374868 Ontario Inc./GHD's responses follow.

Comment

10. GHD proposed the following monitoring program to be conducted at the site:

a) Groundwater sampling of MW1-20, MW2-20, and MW3-20, and two on-Site supply wells be monitored once per year for SVOCs/PAHs only.

b) Surface water sampling of the operations pond be monitored once per year for SVOCs/PAHs only.

c) Groundwater levels be monitored in MW1-20, MW2-20, and MW3-20 four times per year.

d) It is also proposed that a monitoring program report be prepared every 5 years and provided to MECP.

The proposed monitoring plan is reasonable, however I recommend that the groundwater and surface water sampling be conducted at a higher frequency for the first two years to assess the seasonal changes in groundwater quality and quantity at the site. I also recommend that the parameter list be expanded to also include: VOCs, TPH and metals, in addition to SVOCs/PAHs. This will ensure that there is a comprehensive set of monitoring data for the site. I recommend that the proposed monitoring program be conducted at the site for a period of two years after which time a monitoring report shall be submitted to the MECP for review. The monitoring report should include a summary of soil stockpile sampling results over the two-year period. The monitoring report must be prepared by a Qualified Person (Hydrogeologist or Professional Engineer with relevant expertise) and include analysis and interpretation of all of the monitoring data and an updated assessment of the potential for environmental impact and a technical opinion on whether continued monitoring is necessary.

Response

The monitoring program will be revised to include at a minimum monthly surface water sampling and quarterly groundwater sampling. VOCs, TPH and metals also will be added to the monitoring parameter list. After two years of monitoring a monitoring report will be prepared by a Qualified Professional which will provide a review of the data, the soil stockpiling data, an assessment of the potential for environmental impact and an opinion on whether continued monitoring is necessary. Soil and surface water sampling is currently ongoing and the groundwater monitoring program will start upon issuance of final ECAs or sooner at 2374868 Ontario Inc.'s discretion.

Please contact the undersigned if you have any questions.

Sincerely,

GHD

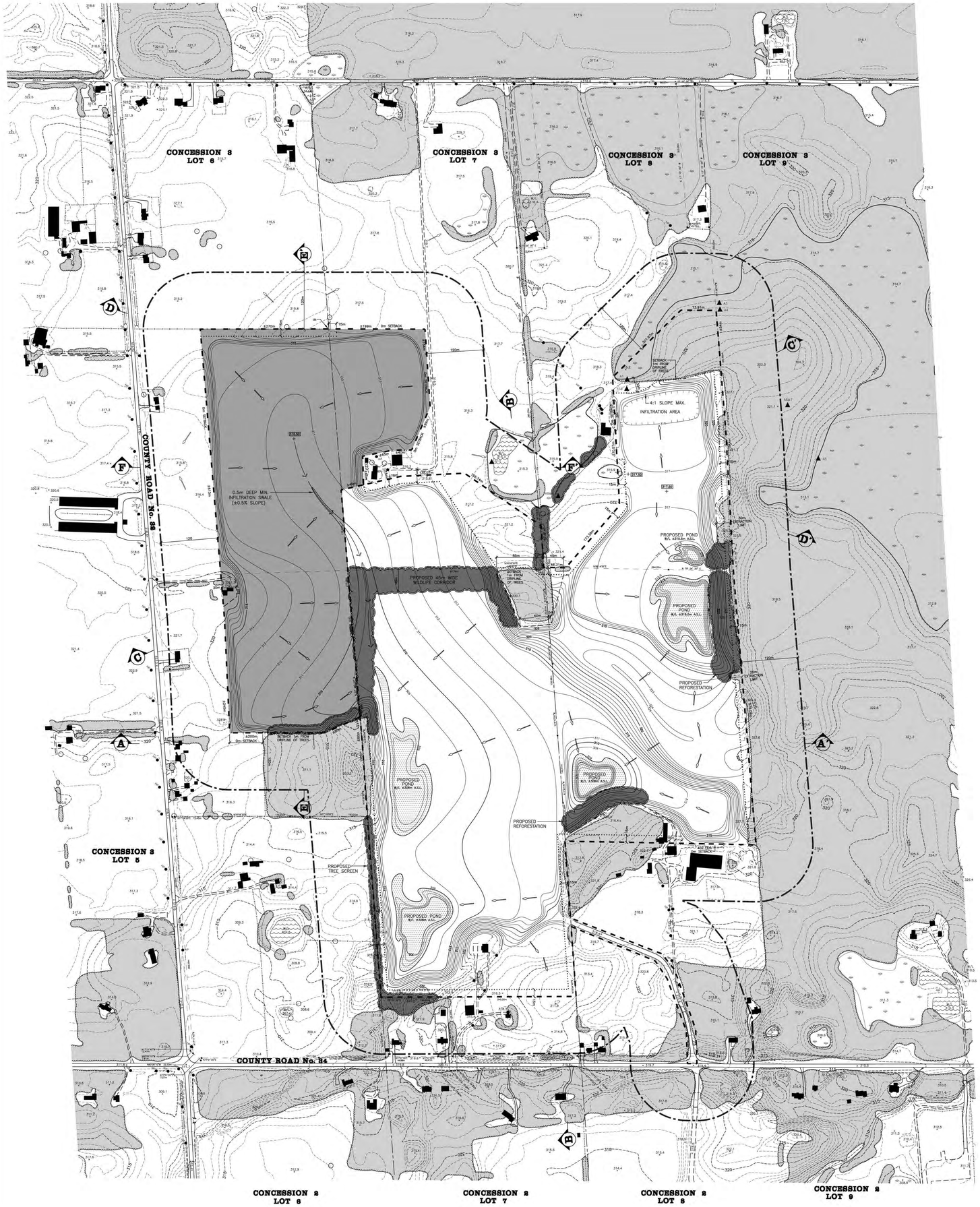
[redacted]

Fred K. Taylor, P. Eng., QP

FT/cb/1

cc: Frank Ertl, Badger Hydrovacing
Gary Lagos, GHD

Attachment B
MNRF Approved Rehabilitation Plan



LEGEND

- BOUNDARY OF EXISTING LICENCE AREA
- BOUNDARY OF LICENCE EXTENSION
- REGULATORY SETBACK LINE
- LIMIT OF EXTRACTION
- 120m BOUNDARY LINE
- PROPERTY LINE
- CONSESSION/ LOT LINE
- EXISTING VEGETATION
- EXISTING SURFACE WATER
- 5m CONTOUR LINE
- 1m CONTOUR LINE
- 273.5 SPOT ELEVATION
- PROPOSED 5m CONTOUR LINE
- PROPOSED 1m CONTOUR LINE
- 273.5 PROPOSED SPOT ELEVATION
- PROPOSED VEGETATION
- PROPOSED POND
- BUILDING
- EXISTING HYDRO POLE
- RAILWAY
- GATE
- DIRECTION OF SURFACE WATER DRAINAGE
- SMALL STREAM, AGRICULTURAL DITCH/ SWALE
- FENCE
- 319 PIEZOMETER

NOTES

1. TOPOGRAPHIC INFORMATION WAS PREPARED THROUGH (AIR PHOTO INTERPRETATION BY PHOTOMAP AIR SURVYEYS, LIMITED, ETOBICOKE ON, DATED FEBRUARY 5, 1997, WITH GROUND CONTROL PROVIDED BY VAN HARTEN SURVEYING LTD. GEODEDIC ELEVATIONS ARE REFERENCED TO THE CORNER OF COUNTY ROADS 34 AND 32.
   INFORMATION UPDATED BY BASE MAPPING COMPANY APRIL, 2002 THROUGH AIR PHOTO INTERPRETATION (PHOTO DECEMBER 2001).

2. *REFER TO DRAWING 1 OF 5 FOR EXISTING FEATURES.*
   REFER TO DRAWING 2 OF 5 FOR OPERATIONS PLAN, PHASING DIAGRAMS AND NOTES.
   REFER TO DRAWING 3 OF 5 FOR TECHNICAL RECOMMENDATIONS AND DETAILS.
   REFER TO DRAWING 4 OF 5 FOR SECTIONS.
   REFER TO DRAWING 5 OF 5 FOR REHABILITATION PLAN AND NOTES.

3. REHABILITATION OF THE PROPERTY INCLUDES THE CREATION OF FOUR PONDS, FORESTED CORRIDORS, AGRICULTURAL LAND, AND WILDLIFE HABITAT.

4. *AREA CALCULATIONS*

	EXISTING LICENCE	*LICENCE EXTENSION*	*TOTAL*
AREA OF LICENCE TO BE REHABILITATED	*±68.16 Ha*	*±27.59 Ha*	*±95.75 Ha*
AREA OF LICENCE TO BE REHABILITATED TO AGRICULTURAL LAND	*±55.81 Ha*	*±27.59 Ha*	*±83.40 Ha*
AREA OF LICENCE TO BE REHABILITATED TO PONDS (PONDS NOT TO EXCEED 6.22 Ha)	*±4.75 Ha*	–	*±4.75 Ha*
AREA OF LICENCE TO BE REHABILITATED TO FORESTED CORRIDORS AND WILDLIFE HABITAT	*±7.60 Ha*	*±0.32 Ha*	*±7.92 Ha*
TREE PLANTINGS OUTSIDE OF LICENCE BOUNDARIES	–	–	*±0.89 Ha*

5. REHABILITATION OF SLOPES SHALL BE BY USING OVERBURDEN AND TOPSOIL FROM WITHIN THE LICENCED BOUNDARY. OVERBURDEN ON SIDE SLOPES AND RECREATIONAL AREAS SHALL BE A MINIMUM OF 200mm THICK AND TOPSOIL SHALL BE A MINIMUM OF 150mm THICK. SIDESLOPES AND RECREATIONAL AREAS SHALL BE SEEDED WITH THE FOLLOWING AT A RATE OF 125 KG/Ha;

   15% BUCKWHEAT — 15% TALL FESCUE
   15% ALFALFA — 15% CREEPING RED FESCUE
   15% WHITE CLOVER — 15% PERENNIAL RYE.
   10% ANNUAL RYE

   PLEASE REFER TO DRAWING 3 OF 5, DETAILS, FOR MORE INFORMATION ON BACKFILLING AND CREATION OF REHABILITATED SIDESLOPES.

6. AGRICULTURAL AREA MAY BE REHABILITATED AS FOLLOWS:
   - DEEP RIPPING TO ELIMINATE COMPACTION
   - SPREADING OVERBURDEN AND ROUGH GRADING.
   - REMOVAL OF STONES LARGER THAN 100mm
   - SPREADING A MINIMUM OF 200mm OF TOPSOIL AND FINE GRADING.
   - UPON COMPLETION OF THE TOPSOIL INSTALLATION AND FINE GRADING THE LAND OWNER SHALL SEED AREAS TO A CROP APPROPRIATE TO THEIR INDIVIDUAL AGRICULTURAL OPERATIONS.
   - TOPSOIL OR OVERBURDEN (INERT MATERIAL) MAY BE IMPORTED TO IMPROVE REHABILITATION BY AUGMENTING TOPSOIL THICKNESS OR BY MAKING SIDE SLOPES GENTLER

7. REHABILITATION OF PONDS SHALL INCLUDE SHALLOW AREAS FOR WEED GROWTH AND PRODUCTIVITY, AND DEEP CELLS TO CREATE COLD WATER ZONES.

   UNDERWATER HABITAT ENHANCEMENT WILL USE LOGS, STUMPS, AND WASTE ROCK. REFER TO SHORELINE HABITAT DETAIL DRAWING 3 OF 5, DETAILS. THE PONDS WILL BE SEEDED WITH SUBMERGED AND EMERGED VEGETATION IN SHALLOW AREAS.

8. ALL SURFACE DRAINAGE WILL BE DIRECTED TOWARDS THE PONDS OR INFILTRATION AREAS. THERE WILL BE NO OFFSITE SURFACE DRAINAGE.

9. THE FOLLOWING VEGETATION WILL BE PLANTED ON SIDE SLOPES:

   WOODY VEGETATION: PLANTED IN CLUSTERS AS SHOWN SHALL INCLUDE:
   3 YEAR OLD SEEDLINGS – WHITE PINE, RED PINE, WHITE CEDAR & LARCH
   10mm CALIPER, ±1.5m HIGH – BALSAM POPLAR, BLACK ASH, SILVER MAPLE, WILLOW & BLACK CHERRY
   3 YEAR OLD PLANTS, SPACED AT 2.1m (7ft) O.C. – DOGWOOD, SUMAC AND ALDER

   WEEDBEDS/EMERGENT VEGETATION: –SEEDED WITHIN THE SHALLOW ZONE (0 TO 0.5m DEEP)
   –NARROWLEAF CATTAIL, SWEET FLAG AND NORTHERN ARROWHEAD.

   SUBMERGENT VEGETATION: –SEEDED WITHIN THE DEEP WATER ZONE (0.5 TO 1.0m DEEP)
   –NORTHERN WATERLILY, COONTAIL AND BLUNTLEAF PONDWEED.

   ALL VEGETATION PLANTED DURING THE OPERATION OF THIS LICENCE WILL BE MAINTAINED IN A HEALTHY VIGOROUS GROWING CONDITION. DEAD PLANTS WITHIN THE TREE SCREEN WILL BE REPLACED WITHIN TWO YEARS.

   PLANT SPECIES AND SPACING ARE SUBJECT TO MODIFICATION DUE TO AVAILABILITY AND SITE CONDITIONS.

10. ALL BUILDINGS, EQUIPMENT AND MACHINERY ASSOCIATED WITH THE EXTRACTION OPERATIONS WILL BE REMOVED UPON COMPLETION OF EXTRACTION. RESIDENTIAL AND FARM BUILDINGS AND FARMING EQUIPMENT WILL REMAIN.

11. A PIEZOMETER SHALL BE INSTALLED DURING PHASE "A" OPERATIONS (AS SHOWN) AT ±319m a.s.l. FINAL REHABILITATED GRADE IN THE ADJACENT EXTRACTION AREA SHALL BE A MINIMUM OF 0.5m ABOVE THE ESTABLISHED WATER TABLE (INFILTRATION AREA).

12. *IT IS ANTICIPATED THAT THE GROUNDWATER ELEVATIONS ACROSS THE EXISTING LICENCE AND EXPANSION AREA WILL REMAIN RELATIVELY UNCHANGED. INFORMATION WAS OBTAINED FROM HYDROGEOLOGICAL ASSESSMENTS COMPLETED BY TERRAQUA INVESTIGATIONS DATED AUGUST 1997, MAY 4, 1998 AND MAY 20, 1998 AND BY BLACKPORT HYDROGEOLOGY INC. DECEMBER 2002.*

NO.	DATE	REVISIONS	OWNER	H.H.	O.M.N.R.
2.	MAR. '03	AS PER OWNR COMMENTS			
1.	FEB. '03	AS PER OWNR COMMENTS			

Pre Licence Review

NO.	DATE	REVISIONS	OWNER	H.H.	O.M.N.R.

Site Plan Amendments

Harrington and Hoyle Ltd.
LANDSCAPE ARCHITECTS
91 Anderson Avenue, Unit #2
Markham, Ontario. L6E 1A5
Telephone: (905) 294-8282
Fax: (905) 294-7623
Offices in Markham and Cambridge

Project Name

CAPITAL PAVING INC.
P.O. BOX 815, Guelph, Ontario N1H 6L8

Wellington Pit #5 and Extension
Licence Number 20085
PART LOTS 6, 7, & 8, CONCESSION 3
TOWNSHIP OF PUSLINCH, WELLINGTON COUNTY

Scale 1:3000 (0 10 50 90 120m)

North

Stamp

Drawing Status
PRELIMINARY FOR DISCUSSION

Drawn	Checked	Issue Date	Project Number
R.M.	G.D.H./ B.J.		02-06

Drawing Title
REHABILITATION PLAN

Drawing Number
5 OF 5

PLOT DATE: MARCH 20, 2003
FILE NAME: 02-06\CDAP\0206-5.DWG

Attachment C
Sealed Stormwater Management Report

Stormwater Management Plan Application for an Industrial Sewage Works – Stormwater Environmental Compliance Approval

2374868 Ontario Inc.
6678 Wellington Road 34
Township of Puslinch, Ontario

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   - 2.2 Hours and Days of Operations 2
   - 2.3 Truck Traffic 2
   - 2.4 Service Area/Waste Accepted 3
   - 2.5 Receiving and Storage 3
   - 2.6 Water Sampling 3
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   - 3.1 Existing Site Drainage 4
   - 3.2 Hydrologic Assessment 4
4. Inspection and Maintenance 5
5. Conclusions 5

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Figure 2 Site Layout

Figure 3 Existing Conditions Catchment Delineation

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Table 2A Water Well 1 (Agricultural Zoned) - Groundwater Analytical Data

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Table 3 Design Storms - Intensity Duration Frequency Parameters

Table 4 Hydrologic Modelling Catchment Parameters - Existing Conditions

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Drawing C-01 Operations Existing Conditions Site Plan

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Appendix A	Zoning Map
Appendix B	Hydrogeological Impact Assessment (HIA) Report
Appendix C	MECP Comments on the HIA Report and Responses
Appendix D	Hydrologic Model Input and Output Files

1. Introduction

GHD has prepared this Stormwater Management (SWM) Plan, on behalf of 2374868 Ontario Inc. (The Applicant), to support an application for a Ministry of the Environment Conservation and Parks (MECP) Environmental Compliance Approval (ECA) (Industrial Sewage Works- Stormwater). This SWM Plan documents the Applicant's stormwater management features at their processing facility located at 6678 Wellington Road 34 in Wellington County, Township of Puslinch, Ontario (Property). The Site is located on a small portion of the Property as shown on Figure 1, Site Location Map. 2374868 Ontario Inc. owns the Property and operates the Site.

This SWM Plan accompanies an ECA application package submitted to the MECP for Industrial Sewage Works, per Section 53 of the Ontario Water Resources Act (OWRA).

This SWM Plan presents GHD review of the existing SWM features in accordance with MECP requirements. GHD notes that this application is for obtaining an ECA for the existing sewage works and that no new works are proposed for the Site. Applications for an ECA (Waste Processing) and an ECA (Air and Noise) for the Site also have been submitted.

The Facility receives soil mixed with approximately 40 to 60 percent potable water (liquid soil) from hydrovacing operations at multiple sites conducted by Site operators and trucks. The soil processing operations are governed under the ECA (Waste Processing). The wet soil is stockpiled and the water drains off the soil by gravity drainage to the stormwater management system. The dry soil is sampled for chemical analysis to confirm that it is acceptable for use at appropriate on or off-Site locations in accordance with Waste ECA requirements.

The report (in addition to figures, drawings, and appendices) is organized into the following sections:

- Section 1 – Introduction
- Section 2 – Background
- Section 3 – Existing Site Conditions
- Section 4 – Hydrologic Assessment
- Section 5 – Monitoring and Maintenance
- Section 6 – Conclusions

The following guidelines and regulations have been reviewed during the process of developing the SWM Plan:

- "Development Engineering Manual" prepared by the City of Guelph Engineering and Capital Infrastructure Services, dated November 2016
- "Stormwater Management Planning and Design Manual", prepared by the MOECC in March 2003

2. Background Information

The Property is legally described as Lot 8, Concession 3 in Wellington County and is 39.3 hectares (ha) in size. The Property is comprised of two (2) equal sized parcels, one zoned as Extractive (EXI) and one zoned as Agricultural (A) as shown on Figure 2.

The Site is located on a 31,000 square meter (m^2) portion of the EXI zoned parcel as shown on Figure 2. The zoning in the area of the Property is provided in Appendix A. The current zoning allows the Site operations, and a minor zoning amendment application has been submitted to Wellington County/the Township of Puslinch to update the specific allowed uses. The adjacent land use to the Property to the west is an operating aggregate extraction pit, to the north is agricultural land, to the east is forested conservation land, and to the south across Wellington Road 34 are residential and agricultural lands. The Ontario Ministry of Natural Resources and Forestry (MNRF) approved Pit Rehabilitation Plan provides for soil importation and associated infrastructure for rehabilitation.

2.1 Site Layout

The Site Layout is shown on Figure 2. The Site operations include the following:

- Site access
- Office Building
- Vehicle Parking areas
- Outdoor soil and water management
- Security

The Property has some wooden fencing on the south, east and north sides.

The Office Building is 650 (m^2) in size. The building is a barn style open concept, steel-framed, and wood and metal clad structure with a concrete foundation and floor. The building is used for office work and miscellaneous equipment storage. Roof stormwater runoff is directed to the ground surface.

2.2 Hours and Days of Operations

The Site typically operates from 7 am to 6 pm Monday to Friday with trucks leaving in the morning and returning in the afternoon to unload. Some trucks make multiple trips from/to the Site during the day. The Site also occasionally provides hydrovacing services outside typical operating hours (e.g., after hours and weekends). The Site operates for 50 weeks per year.

2.3 Truck Traffic

Traffic to and from the Site uses the access road from the entrance at Wellington Road 34 from near by streets including Highway 401. All vehicles enter the Property from Wellington Road 34 onto the haul road and proceed directly to the Site. The traffic associated with the operations is not expected

to increase from current operations which has 25 hydrovac trucks and personal vehicles of truck drivers and Site personnel.

2.4 Service Area/Waste Accepted

The hydrovac trucks work throughout southern Ontario where liquid soil is collected from utility, municipal and commercial sites to ensure that utility strikes and damage do not occur during intrusive work (e.g., utility and roadwork). No hydrovacing is done at environmental or other sites with known soil impacts. Liquid soil loads that may be impacted (e.g., determined by Site information, visual inspection and odours) are not returned to the Site and are sent directly to a MECP permitted treatment or disposal facility.

2.5 Receiving and Storage

The Applicant receives a maximum of 250 tonnes of liquid soil per day which is comprised of approximately 150 tonnes of water and 100 tonnes of dry soil. The Site has no more than ten weeks of dry soil stored at the Site at any one time (5,000 tonnes). The soil is placed in stockpiles for drying and sampling and some aggregate is separated out for recycling.

2.6 Water Sampling

2.6.1 Surface Water Sampling

The Applicant has conducted pond surface water sampling on a weekly basis since 2014. In May 2020, an expanded parameter list was started. From January 2017 to November 2020, 88 surface water samples were collected. The sampling results for 2020 (May to November 2020) are provided in Table 1 and are representative of the entire data set. The analytical data are compared to the Table 2 Potable Standards[1] as pond water infiltrates to groundwater and groundwater is used for potable use in the area of the Site, and all samples met the Standards.

There are two active water wells (livestock well and Site supply well) on the Property. One well is located on the Agriculture zoned portion of the property and the other is within the Site operations area (Extraction zoned). The Applicant has conducted groundwater well sampling since 2014. The sampling results for 2020 are provided in Table 2A (Agricultural Well) and Table 2B (Site Well), respectively and are representative of the entire data set. The analytical data are compared to the Table 2 Standards[1] and the results met the Standards.

In response to a request from MECP a Hydrogeological Impact Assessment (HIA) was completed for the Site. The HIA provides a comprehensive review of hydrogeological conditions in the area of the Site and concludes that there are no impacts to groundwater resources from Site operations. As part of the HIA, three new groundwater monitoring wells were installed and sampled. The HIA report is provided in Appendix B. The HIA demonstrates that there are no impacts to groundwater resources from the Site operations and a monitoring and reporting program also is included to provide ongoing demonstration of these conditions. MECP completed a technical review of the HIA report and concurred with the report conclusions. MECP's review also suggested that additional

[1] Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Coarse Textured Soils, as provided in the Table 1 of the MECP document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011.

monitoring parameters and an increased frequency for the proposed groundwater monitoring program, including reporting be provided. A copy of the MECP's review and the Applicant/GHD's response which concurs with the proposed monitoring program changes are provided in Appendix C.

3. Existing Site Conditions

The majority of the surface cover is woodlots, vegetation and grass. The operational Site surface cover is aggregate covered road and parking areas, bare soil and grass. The gravity water drainage from the soil stockpiles is collected in a vegetated drainage swale which runs east west and drains into an on-Site pond. The pond does not have an outlet and water is lost through evapotranspiration or infiltrates to soil and groundwater.

3.1 Existing Site Drainage

The existing conditions drainage patterns and the SWM features are shown on Figure 3 consist of a vegetated swale and SWM pond.

The eastern portion of the Site (Catchment A101, discharges overland towards the vegetated swale, and runoff is conveyed to the SWM pond. Catchment A102 is also captured by the vegetated swale and conveyed to the SWM pond. The remaining area, Catchment A103, discharges directly via sheet flow into the SWM pond. The on-site SWM pond is considered to be a wet pond with normal water levels at approximately 309 m AMSL as shown on Drawing C-01. There are no direct point source discharges of stormwater or outfalls from the Site to off-site areas.

The Property drainage outside of the Site area is not connected to the Site drainage features. The majority of the Property drains via sheet flow either to a second pond (located in the northern area of the Property), or to lower lying areas of the Property. There are no direct point source discharges of stormwater or outfalls from the Property to off-Site areas. There is some minor sheet flow runoff from the Property at the perimeter Property boundaries.

3.2 Hydrologic Assessment

Existing conditions modelling was conducted using PCSWMM V7.2.2785 to estimate peak flows and runoff volumes and to assess the on-site stormwater features (vegetated swale and SWM pond). The 24-hour SCS Type II storms were simulated using PCSWMM model and the IDF values were obtained from MTO-IDF curve lookup tool. The model was run for the 1:2 year through 1:100 year. Table 3 provides the synthetic design storm input parameters.

Catchment model input parameters were obtained from a review of topographic surveys, aerial photographs, and Site visit notes. A summary of the existing conditions catchment parameters are presented in Table 4 and are based on conditions as shown on Drawing C-01. A summary of the estimated peak flow and runoff volume from each catchment area is presented in Tables 5 and 6, respectively.

The PCSWMM model was used to assess the capacity of the on-Site swale and SWM pond. SWM pond information is presented in Table 7, including the maximum pond stage for each storm.

The PCSWMM hydrologic model input and output files for existing conditions is provided as Appendix D.

The hydrological modelling verifies that the on-site stormwater features have sufficient capacity to capture, convey and mitigate the stormwater runoff from the operational areas including additional areas served by the on-site stormwater features.

4. Inspection and Maintenance

The following proposed measures should be performed to monitor and maintain the on-site stormwater features:

- Inspect the vegetated swale regularly to check for sediment and/or debris accumulation. If there is a large amount of sediment and/or debris buildup, then perform maintenance.
- The SWM pond should be checked regularly to ensure that excessive sediment build-up does not occur. The pond area should be cleaned on an as-required basis. If erosion is present, the affected areas must be maintained, re-graded or otherwise restored as required.
- Conduct yard inspection on a regular basis and perform maintenance as required to keep outside areas clean to minimize potential impacts to stormwater.

These inspection and maintenance activities are included in the Design and Operations Report for the Site submitted with the application for an ECA (Waste Processing).

5. Conclusions

GHD has prepared this Stormwater Management Plan for 2374868 Ontario Inc. for the exiting Site servicing hydrovacing operations.

This Stormwater Management Plan was submitted with an application for an ECA (Industrial Sewage Works) as per Section 53 of the OWRA. The ECA will govern the operation of the sewage works at the Site consisting of a vegetated swale and SWM pond.

Note that no new works or modifications to the Site are proposed. Hence, Site drainage pattern and stormwater runoff are maintained. GHD's assessment of the operation of the existing sewage works is that no additional quantity or quality works are required. The on-site stormwater features provide water quality treatment accumulatively through a vegetated swale by promoting settling of suspended solids and infiltration of stormwater runoff via the SWM pond. In addition, the SWM pond has sufficient capacity to capture and store stormwater runoff generated by storm events larger than the 100-year from all contributing drainage areas.

All of Which is Respectfully Submitted,

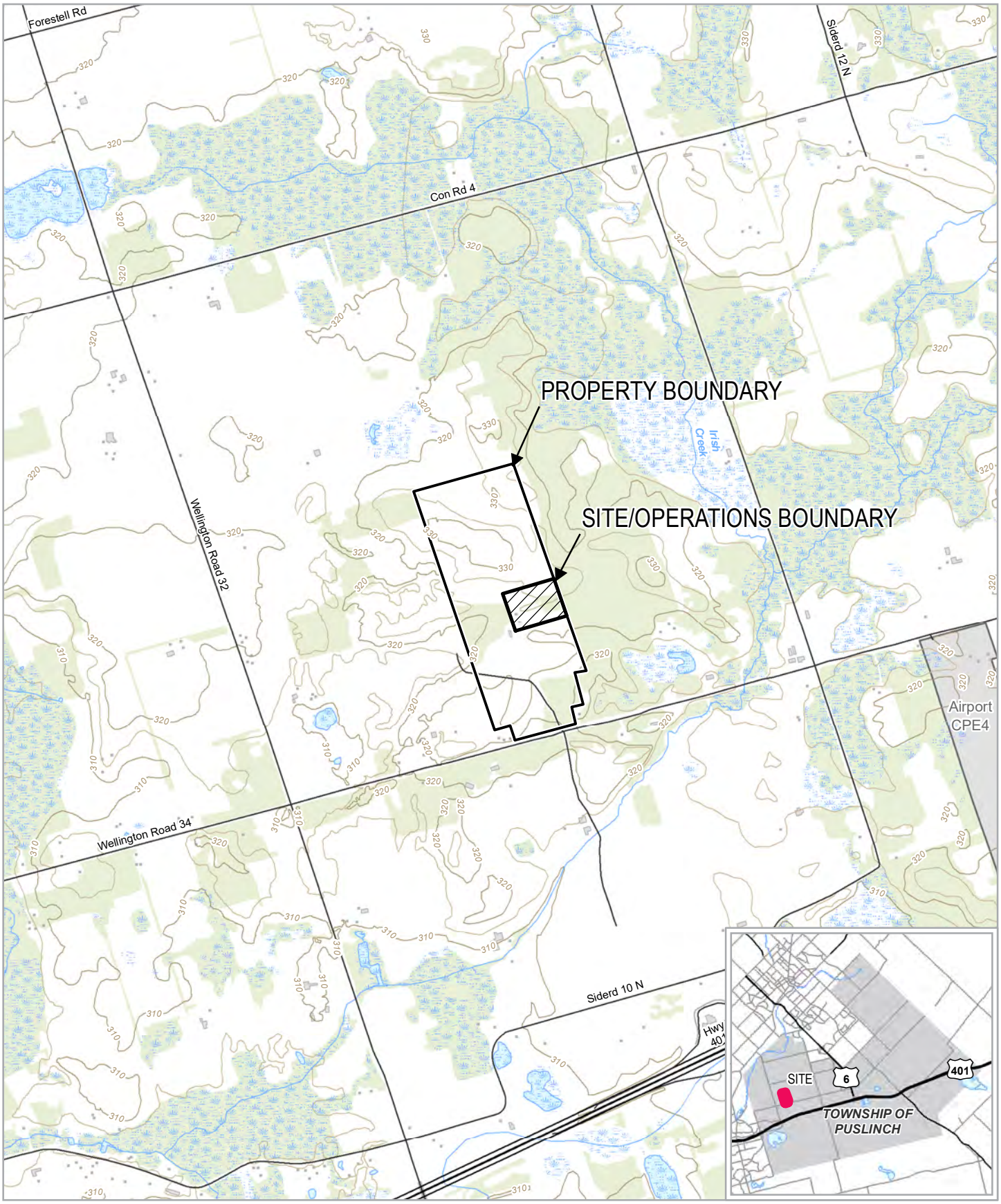
GHD

[redacted]

Janusz Czuj, P. Eng.

[redacted]

Nishant Patel, EIT



Paper Size ANSI A

0 100 200 300 400

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983 CSRS
Grid: NAD 1983 CSRS UTM Zone 17N

N

GHD

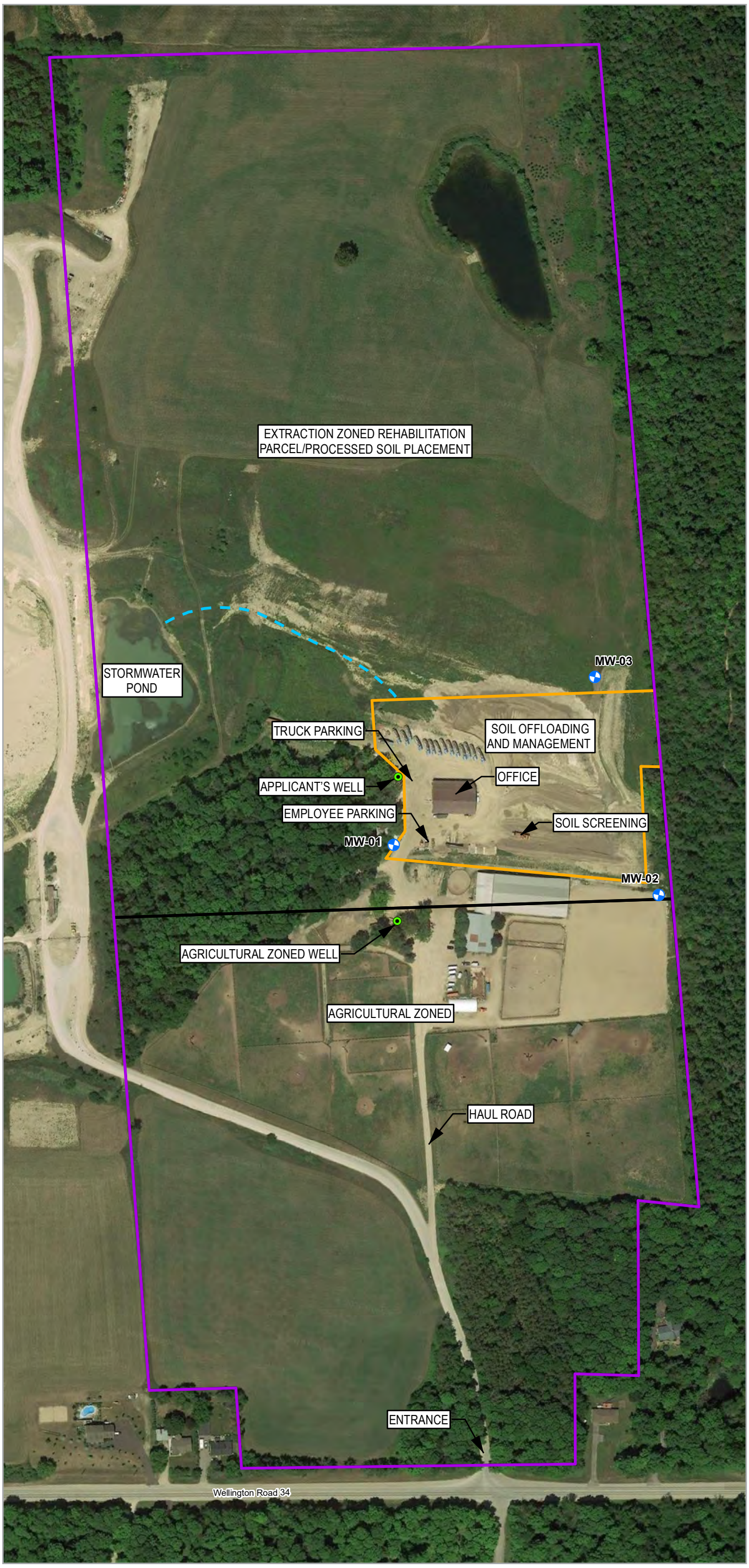
2374868 ONTARIO INC. 6678
WELLINGTON RD 34
TOWNSHIP OF PUSLINCH, ON

Project No. **11210029**
Revision No. **-**
Date **Oct 9, 2020**

SITE LOCATION MAP

FIGURE 1

Data source: WWIS, 2020. Ontario Ministry of the Environment (Accessed August, 2020); Imagery Google 2020. Capture date: 7/Jul/2018



Legend

- Well
- Monitoring Well
- Drainage Swale
- Site/Operations Boundary
- Property Boundary

Paper Size ANSI B

0 20 40 60 80

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983 CSRS
Grid: NAD 1983 CSRS UTM Zone 17N

N

2374868 ONTARIO INC.
6678 WELLINGTON RD 34
TOWNSHIP OF PUSLINCH, ON

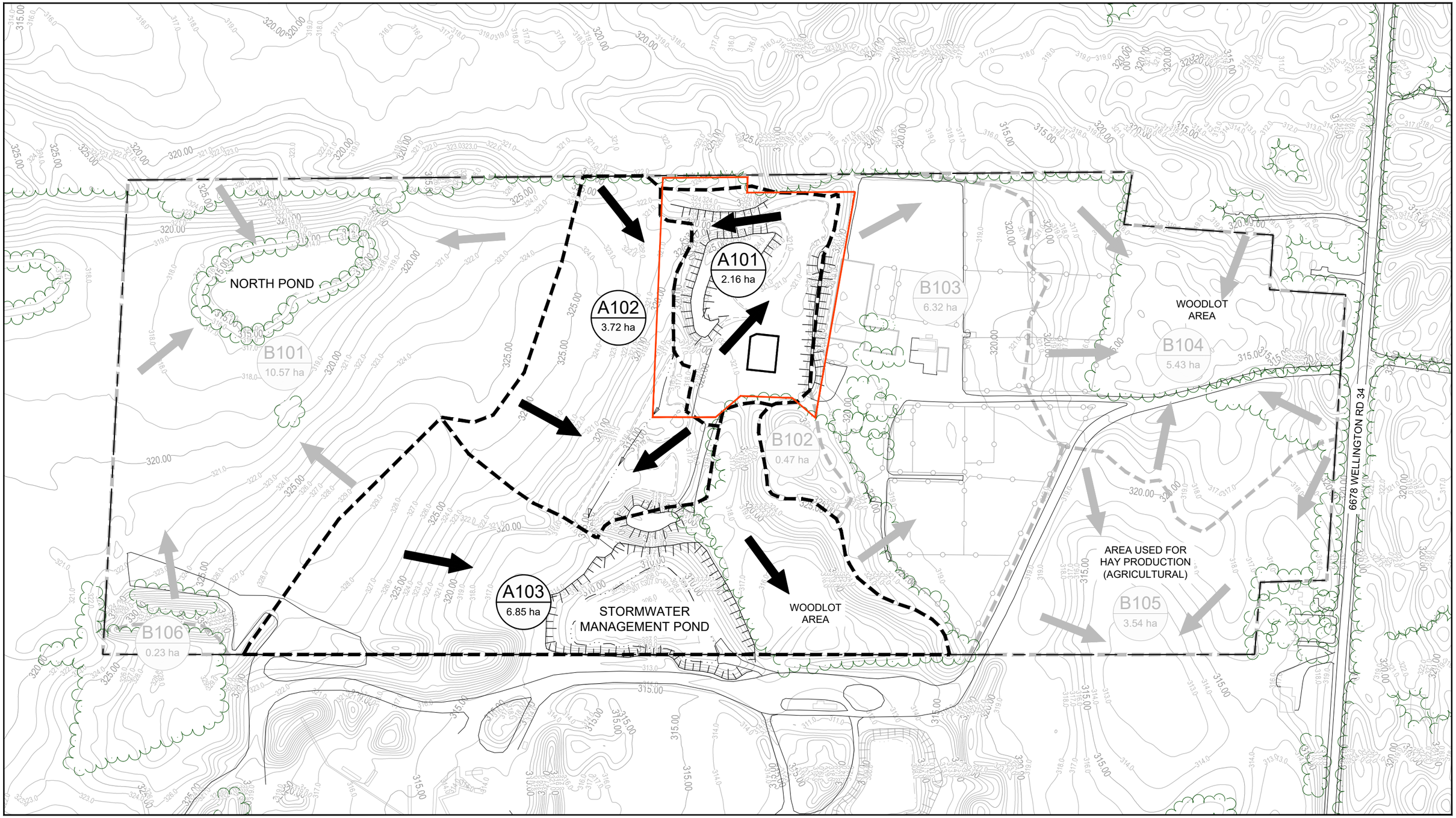
SITE LAYOUT

Project No. **11210029**
Revision No. **-**
Date **Feb 1, 2021**

FIGURE 2

Q:\GIS\PROJECTS\11210000s\11210029\Layouts\202010_PRES002\11210029_202010_PRES002_GIS002.mxd
Print date: 01 Feb 2021 - 11:24

Data source: .



0 30 60 90m

LEGEND

- SITE OPERATION CATCHMENT BOUNDARY
- CATCHMENT BOUNDARY
- A101 / 2.16 ha — CATCHMENT ID / CATCHMENT AREA
- PROPERTY BOUNDARY
- SITE/OPERATIONS BOUNDARY
- DIRECTION OF SURFACE WATER FLOW

2374868 ONTARIO INC.

STORMWATER MANAGEMENT PLAN

EXISTING CONDITIONS CATCHMENT DELINEATION

11210029-01

Dec 17, 2020

FIGURE 3

CAD File: N:\CA\Waterloo\Projects\662\11210029\Digital_Design\ACAD 2020\Figures\Report 002\11210029-01(002)GN\11210029-01(002)GN-WA001.dwg

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

			Sample ID:	W-11210029-28052020-CD002	W-11210029-040620-AS-004	W-11210029-20200611-CD-006	W11210029-20200618-8	W-11210029-20200625-10	W-11210029-20200716-16	W-11210029-20200806-22
			Report No.	L2453062-1	L2456339-1	L2459298-1	L2465490	L2466205-1	L2475470-1	L2484852-1
			Sample Date:	May 28 2020	June 4 2020	June 11 2020	June 18 2020	June 25 2020	July 16 2020	August 6 2020
	Table 2 Standards [2]	**PWQO/ IPWQO [3]**								
	2011	**1999**	**Units**							
Metals										
Aluminum	--	**75***	µg/L	447	250	876	604	<5.0	<5.0	<5.0
Antimony	6	20	µg/L	0.18	0.19	0.21	0.25	<0.1	<0.1	<0.1
Arsenic	25	5	µg/L	0.92	0.86	1.27	1.19	5.13	5.25	7.84
Barium	1000	--	µg/L	11.8	12.6	18	14.9	64	63.1	49.6
Beryllium (4)	4	1100	µg/L	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1
Bismuth	--	--	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Boron (total)	5000	**200**	µg/L	17	13	15	16	14	14	<10.0
Cadmium (5)	2.7	0.5	µg/L	0.0168	0.0093	0.0356	0.0333	<0.005	<0.005	<0.005
Calcium	--	--	µg/L	36500	31000	32100	32100	47400	46900	63300
Cesium	--	--	µg/L	0.033	0.017	0.081	0.051	<0.01	<0.01	<0.01
Chromium	50	8.9	µg/L	0.62	<0.05	1.2	0.92	<0.5	<0.5	<0.5
Chromium, Hexavalent	25	1	µg/L	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5
Cobalt	3.8	0.9	µg/L	0.22	0.15	0.52	0.39	<0.1	<0.1	<0.1
Copper	87	**5**	µg/L	1.91	1	3	3	<0.5	<0.5	<0.5
Iron	--	**300**	µg/L	444	256	1140	823	252	262	714
Lead (6)	10	5	µg/L	1.15	0.694	3.21	2.83	<0.005	<0.05	0.141
Lithium	--	--	µg/L	1.5	<1.0	1.3	1.3	3.1	2.9	2.7
Magnesium	--	--	µg/L	8570	8410	8770	9750	25400	26600	30200
Manganese	--	--	µg/L	35.9	18.6	44.7	43.8	8.29	8.48	8.8
Mercury	0.29	**0.2***	µg/L	<0.05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
Molybdenum	70	40	µg/L	2.41	2.65	2.38	2.44	0.721	0.722	0.596
Nickel	100	25	µg/L	0.98	0.7	1.6	1.27	<0.5	<0.5	1.22
Phosphorus	--	--	µg/L	60	<50.0	55	66	<50.0	<50.0	<50.0
Potassium	--	--	µg/L	2530	2460	2570	2570	960	958	898
Rubidium	--	--	µg/L	0.86	0.59	1.36	1.03	0.36	0.3	<0.02
Selenium	10	100	µg/L	0.115	0.108	0.105	0.158	<0.05	<0.05	<0.05
Silicon	--		µg/L	860	550	1450	1020	7360	7520	8380
Silver	1.5	0.1	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sodium	490000	--	µg/L	30600	31800	31000	31800	5750	5810	7170
Strontium	--	--	µg/L	105	103	106	108	334	327	145
Sulfur	--	--	µg/L	6620	6630	6520	6830	7030	7380	18300
Tellurium	--	--	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	2.0	0.3	µg/L	<0.01	<0.01	0.013	0.01	<0.01	<0.01	<0.01
Thorium	--	--	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tin	--	--	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Titanium	--	--	µg/L	13.9	6.34	21.3	16.1	<0.3	<0.3	<0.3
Tungsten	--	30.0	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Uranium	20.0	5.0	µg/L	0.563	0.543	0.59	0.599	0.555	0.564	0.297
Vanadium	6.2	6.0	µg/L	1.14	0.88	2.06	1.73	<0.5	<0.5	<0.5
Zinc	1100	**20**	µg/L	4.8	<3.0	14.0	14.3	<3.0	<3.0	44.2
Zirconium	--	**4**	µg/L	0.4	<0.2	0.54	0.3	<0.2	<0.2	<0.2
Total Plate Count	--	--	cfu/mL							
E. coli	--	100 cfu/100 mL	cfu/100 mL							

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

			Sample ID:	W-11210029-28052020-CD002	W-11210029-040620-AS-004	W-11210029-20200611-CD-006	W11210029-20200618-8	W-11210029-20200625-10	W-11210029-20200716-16	W-11210029-20200806-22
			Report No.	L2453062-1	L2456339-1	L2459298-1	L2465490	L2466205-1	L2475470-1	L2484852-1
			Sample Date:	May 28 2020	June 4 2020	June 11 2020	June 18 2020	June 25 2020	July 16 2020	August 6 2020
	Table 2 Standards [2] 2011	PWQO/ IPWQO [3] 1999	Units							
Volatile Organic Compounds (Water)										
Acetone	2700		µg/L	<30	<30	<30	<30	<30	<30	<30
Benzene	5	100	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	16	200	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	25	60	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	0.89	0.9	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	0.79		µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	30	15	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	25		µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	2.4		µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane			µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	3	2.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	59	2.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	1	4	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	590		µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	5	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	1.6	100	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	40	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	1.6	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	50	100	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5	0.7	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	0.5		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	0.5		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene (cis & trans	0.5		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2.4	8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Hexane	51		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Ethyl Ketone	1800	400	µg/L	<20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	640		µg/L	<20	<20	<20	<20	<20	<20	<20
MTBE	15	200	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	5.4	4	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	1.1	20	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	1	70	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	24	0.8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	200	10	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	4.7	800	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	20	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	150		µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	0.5	600	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene		40	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
m+p-Xylenes			µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylenes (Total)	300		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

			Sample ID:	W-11210029-28052020-CD002	W-11210029-040620-AS-004	W-11210029-20200611-CD-006	W11210029-20200618-8	W-11210029-20200625-10	W-11210029-20200716-16	W-11210029-20200806-22
			Report No.	L2453062-1	L2456339-1	L2459298-1	L2465490	L2466205-1	L2475470-1	L2484852-1
			Sample Date:	May 28 2020	June 4 2020	June 11 2020	June 18 2020	June 25 2020	July 16 2020	August 6 2020
	Table 2 Standards [2] 2011	PWQO/ IPWQO [3] 1999	Units							
Hydrocarbons (Water)										
F1 (C6-C10)	750		µg/L	<25	<25	<25	<25	<25	<25	<25
F1-BTEX			µg/L	<25	<25	<25	<25	<25	<25	<25
F2 (C10-C16)	150		µg/L	<100	<100	<100	<100	<100	<100	<100
F2-Naphth			µg/L	<100	<100	<100	<100	<100	<100	<100
F3 (C16-C34)	500		µg/L	<250	<250	<250	<250	<250	<250	<250
F3-PAH			µg/L	<250	<250	<250	<250	<250	<250	<250
F4 (C34-C50)	500		µg/L	<250	<250	<250	<250	<250	<250	<250
Total Hydrocarbons (C6-C50)			µg/L	<370	<370	<370	<370	<370	<370	<370
Semi-Volatile Organics (Water)										
Biphenyl	0.5	0.2	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
4-Chloroaniline	10		µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Bis(2-chloroethyl)ether	5	200	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Bis(2-chloroisopropyl)ether	120		µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2-Chlorophenol	8.9		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
3,3'-Dichlorobenzidine	0.5	0.6	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4-Dichlorophenol	20	0.2	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Diethylphthalate	38		µg/L	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dimethylphthalate	38		µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2,4-Dimethylphenol	59	8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dinitrophenol	10	10	µg/L	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0
2,4-Dinitrotoluene	5	4	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,6-Dinitrotoluene	5	6	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4+2,6-Dinitrotoluene	5		µg/L	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
Bis(2-ethylhexyl)phthalate	10		µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Pentachlorophenol	30	0.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Phenol	890	5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	70	0.5	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4,5-Trichlorophenol	8.9	18	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2,4,6-Trichlorophenol	2	18	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Polychlorinated Biphenyls (Water)										
Aroclor 1242			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1248			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1254			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1260			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Total PCBs	3	0.001	µg/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Aggregate Organics (Water)										
BOD			µg/L	4100	<3000	<3000				

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

	Table 2 Standards [2] 2011	PWQO/ IPWQO [3] 1999	Units	W-11210029-28052020-CD002 L2453062-1 May 28 2020	W-11210029-040620-AS-004 L2456339-1 June 4 2020	W-11210029-20200611-CD-006 L2459298-1 June 11 2020	W11210029-20200618-8 L2465490 June 18 2020	W-11210029-20200625-10 L2466205-1 June 25 2020	W-11210029-20200716-16 L2475470-1 July 16 2020	W-11210029-20200806-22 L2484852-1 August 6 2020
Physical Tests (Water)										
pH			pH units	8.23	8.46	8.16				
Total Suspended Solids			µg/L	12800	4600	22600				
Anions and Nutrients (Water)										
Phosphorus, Total			µg/L	36.5	25.7	51.6	35.4	4.5	7.0	7.0
Organic / Inorganic Carbon (Water)										
Total Organic Carbon			µg/L	5730	4830	7240				
Polycyclic Aromatic Hydrocarbons (Water)										
Acenaphthene	4.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Acenaphthylene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anthracene	2.4		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)anthracene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)pyrene	0.01		µg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b)fluoranthene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(g,h,i)perylene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(k)fluoranthene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chrysene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenzo(ah)anthracene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluoranthene	0.41		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluorene	120		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1+2-Methylnaphthalenes	3.2		µg/L	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
1-Methylnaphthalene	3.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
2-Methylnaphthalene	3.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Naphthalene	11		µg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Pyrene	4.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

Notes:

(1) Data from Guelph Chemical Laboratories Ltd. (GCL) reports for pond water samples collected by Badger on monthly basis from January 2017 to December 2019.
(2) Full Depth Generic Site Condition Standards in a Potable Ground Water Condition All Types of Property Use, as provided in the Table 2 of the MECP document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011.
(3) PWQO=Provincial Water Quality Objective, MECP, February 1999
IPWQO= Interim Provincial Water Quality Objective, MECP, February 1999
(4) The PWQO for beryllium is 1.1 mg/L when the hardness as CaCO3 (mg/L) is >75
(5) The IPWQO for cadmium is 0.0005 mg/L when the hardness as CaCO3 (mg/L) is >100
(6) The IPWQO for lead is 0.005 mg/L when the hardness as CaCO3 (mg/L) is >80
(*) The PWQO is for Dissolved Metals
' -- No data or Standard available.
ND Not detected at the associated detection limit (DL).
µg/L microgram/liter
cfu / colony forming units/milliliter
Concentration greater then referenced 2011 Table 2 Criteria.

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

			Sample ID:	W-11210029-20200827-28	W-11210029-20200903-30	W-11210029-20200910-32	W-11210029-20200917-34	W-11210029-20200924-36	W-11210029-20201001-38	W-11210029-20201008-40
			Report No.	L2495218	L2498566-1	L2501541-1	L2504779-1	L2507865-1	L2511128-1	L2514428-1
			Sample Date:	August 27 2020	September 3 2020	September 10 2020	September 17 2020	September 24 2020	October 1 2020	October 8 2020
	Table 2 Standards [2]	**PWQO/ IPWQO [3]**								
	2011	**1999**	**Units**							
Metals										
Aluminum	**--**	**75***	µg/L	251	6.0	626	<5.0	<5.0	<5.0	<5.0
Antimony	6	20	µg/L	0.21	<0.1	0.24	<0.1	<0.1	<0.1	<0.1
Arsenic	25	5	µg/L	1.27	5.61	1.82	5.42	6	11.1	5.01
Barium	1000	--	µg/L	13.5	67.2	21.3	49.4	50	51.4	51.1
Beryllium (4)	4	1100	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bismuth	--	--	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Boron (total)	5000	**200**	µg/L	17	15	17	<10.0	<10.0	<10.0	<10.0
Cadmium (5)	2.7	0.5	µg/L	0.0099	<0.005	0.0217	<0.005	<0.005	0.0068	<0.005
Calcium	--	--	µg/L	24900	49700	29400	70600	69100	69300	71700
Cesium	--	--	µg/L	0.018	<0.01	0.052	<0.01	<0.01	<0.01	<0.01
Chromium	50	8.9	µg/L	<0.5	<0.5	0.84	<0.5	<0.5	<0.5	<0.5
Chromium, Hexavalent	25	1	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	3.8	0.9	µg/L	0.15	<0.1	0.28	<0.1	<0.1	0.32	<0.1
Copper	87	**5**	µg/L	1.59	<0.5	3	<0.5	<0.5	3	<0.5
Iron	**--**	**300**	µg/L	275	287	688	434	474	1760	387
Lead (6)	10	5	µg/L	1.02	<0.05	1.78	0.108	0.131	0.959	0.055
Lithium	--	--	µg/L	<1.0	3.5	<1.0	4.2	3.5	3.9	4.0
Magnesium	--	--	µg/L	7660	26800	7850	33500	31700	32100	33900
Manganese	--	--	µg/L	15.5	9.08	37.1	10.2	9.55	11.2	11.0
Mercury	0.29	**0.2***	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Molybdenum	70	40	µg/L	2.74	0.754	2.99	0.59	0.563	0.567	0.544
Nickel	100	25	µg/L	0.76	<0.5	1.1	0.97	0.96	12.5	<0.5
Phosphorus	--	--	µg/L	<50	<50.0	59	<50.0	<50.0	<50.0	<50.0
Potassium	--	--	µg/L	2360	1010	2630	950	973	986	980
Rubidium	--	--	µg/L	0.59	0.31	1.28	0.21	<0.2	<0.2	<0.2
Selenium	10	100	µg/L	0.103	<0.05	0.134	<0.05	<0.05	<0.05	<0.05
Silicon	--		µg/L	360	7490	1070	8850	8650	9160	8700
Silver	1.5	0.1	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sodium	490000	--	µg/L	31700	6220	31700	7920	7700	7730	8200
Strontium	--	--	µg/L	86.3	3.22	102	153	150	154	147
Sulfur	--	--	µg/L	5940	7130	6060	20500	19900	19500	19300
Tellurium	--	--	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	2.0	0.3	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium	--	--	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tin	--	--	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.18	<0.1
Titanium	--	--	µg/L	5.22	<0.3	15.5	<0.3	<0.3	<0.3	<0.3
Tungsten	--	30.0	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Uranium	20.0	5.0	µg/L	0.493	0.61	0.472	0.251	0.276	0.26	0.254
Vanadium	6.2	6.0	µg/L	1.25	<0.5	1.89	<0.5	<0.5	<0.5	<0.5
Zinc	1100	**20**	µg/L	3.6	<3.0	7.6	4.6	8.4	346.0	6.3
Zirconium	**--**	**4**	µg/L	<0.2	<0.2	0.35	<0.2	<0.2	<0.2	<0.2
Total Plate Count	--	--	cfu/mL							
E. coli	--	100 cfu/100 mL	cfu/100 mL							

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

			Sample ID:	W-11210029-20200827-28	W-11210029-20200903-30	W-11210029-20200910-32	W-11210029-20200917-34	W-11210029-20200924-36	W-11210029-20201001-38	W-11210029-20201008-40
			Report No.	L2495218	L2498566-1	L2501541-1	L2504779-1	L2507865-1	L2511128-1	L2514428-1
			Sample Date:	August 27 2020	September 3 2020	September 10 2020	September 17 2020	September 24 2020	October 1 2020	October 8 2020
	Table 2 Standards [2]	PWQO/ IPWQO [3]								
	2011	1999	Units							
Volatile Organic Compounds (Water)										
Acetone	2700		µg/L	<30	<30	<30	<30	<30	<30	<30
Benzene	5	100	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	16	200	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	25	60	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	0.89	0.9	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	0.79		µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	30	15	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	25		µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	2.4		µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane			µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	3	2.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	59	2.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	1	4	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	590		µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	5	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	1.6	100	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	40	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	1.6	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	50	100	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5	0.7	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	0.5		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	0.5		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene (cis & trans	0.5		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2.4	8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Hexane	51		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Ethyl Ketone	1800	400	µg/L	<20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	640		µg/L	<20	<20	<20	<20	<20	<20	<20
MTBE	15	200	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	5.4	4	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	1.1	20	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	1	70	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	24	0.8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	200	10	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	4.7	800	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	20	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	150		µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	0.5	600	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene		40	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
m+p-Xylenes			µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylenes (Total)	300		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

			Sample ID:	W-11210029-20200827-28	W-11210029-20200903-30	W-11210029-20200910-32	W-11210029-20200917-34	W-11210029-20200924-36	W-11210029-20201001-38	W-11210029-20201008-40
			Report No.	L2495218	L2498566-1	L2501541-1	L2504779-1	L2507865-1	L2511128-1	L2514428-1
			Sample Date:	August 27 2020	September 3 2020	September 10 2020	September 17 2020	September 24 2020	October 1 2020	October 8 2020
	Table 2 Standards [2]	PWQO/ IPWQO [3]								
	2011	1999	Units							
Hydrocarbons (Water)										
F1 (C6-C10)	750		µg/L	<25	<25	<25	<25	<25	<25	<25
F1-BTEX			µg/L	<25	<25	<25	<25	<25	<25	<25
F2 (C10-C16)	150		µg/L	<100	<100	<100	<100	<100	<100	<100
F2-Naphth			µg/L	<100	<100	<100	<100	<100	<100	<100
F3 (C16-C34)	500		µg/L	<250	<250	<250	<250	<250	<250	<250
F3-PAH			µg/L	<250	<250	<250	<250	<250	<250	<250
F4 (C34-C50)	500		µg/L	<250	<250	<250	<250	<250	<250	<250
Total Hydrocarbons (C6-C50)			µg/L	<370	<370	<370	<370	<370	<370	<370
Semi-Volatile Organics (Water)										
Biphenyl	0.5	0.2	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
4-Chloroaniline	10		µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Bis(2-chloroethyl)ether	5	200	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Bis(2-chloroisopropyl)ether	120		µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2-Chlorophenol	8.9		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
3,3'-Dichlorobenzidine	0.5	0.6	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4-Dichlorophenol	20	0.2	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Diethylphthalate	38		µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dimethylphthalate	38		µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2,4-Dimethylphenol	59	8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dinitrophenol	10	10	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,4-Dinitrotoluene	5	4	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,6-Dinitrotoluene	5	6	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4+2,6-Dinitrotoluene	5		µg/L	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
Bis(2-ethylhexyl)phthalate	10		µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.3
Pentachlorophenol	30	0.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Phenol	890	5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	70	0.5	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4,5-Trichlorophenol	8.9	18	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2,4,6-Trichlorophenol	2	18	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Polychlorinated Biphenyls (Water)										
Aroclor 1242			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1248			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1254			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1260			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Total PCBs	3	0.001	µg/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Aggregate Organics (Water)										
BOD			µg/L							

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

	Table 2 Standards [2] 2011	PWQO/ IPWQO [3] 1999	Units	W-11210029-20200827-28 L2495218 August 27 2020	W-11210029-20200903-30 L2498566-1 September 3 2020	W-11210029-20200910-32 L2501541-1 September 10 2020	W-11210029-20200917-34 L2504779-1 September 17 2020	W-11210029-20200924-36 L2507865-1 September 24 2020	W-11210029-20201001-38 L2511128-1 October 1 2020	W-11210029-20201008-40 L2514428-1 October 8 2020
Physical Tests (Water)										
pH			pH units							
Total Suspended Solids			µg/L							
Anions and Nutrients (Water)										
Phosphorus, Total			µg/L	38.1	3.2	48.8	4.6	<3.0	5.8	6.3
Organic / Inorganic Carbon (Water)										
Total Organic Carbon			µg/L							
Polycyclic Aromatic Hydrocarbons (Water)										
Acenaphthene	4.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Acenaphthylene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anthracene	2.4		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)anthracene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)pyrene	0.01		µg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b)fluoranthene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(g,h,i)perylene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(k)fluoranthene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chrysene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenzo(ah)anthracene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluoranthene	0.41		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluorene	120		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1+2-Methylnaphthalenes	3.2		µg/L	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
1-Methylnaphthalene	3.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
2-Methylnaphthalene	3.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Naphthalene	11		µg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Pyrene	4.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

Notes:

(1) Data from Guelph Chemical Laboratories Ltd. (GCL) reports for pond water samples collected by Badger on monthly basis from January 2017 to December 2019.
(2) Full Depth Generic Site Condition Standards in a Potable Ground Water Condition All Types of Property Use, as provided in the Table 2 of the MECP document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011.
(3) PWQO=Provincial Water Quality Objective, MECP, February 1999
IPWQO= Interim Provincial Water Quality Objective, MECP, February 1999
(4) The PWQO for beryllium is 1.1 mg/L when the hardness as CaCO3 (mg/L) is >75
(5) The IPWQO for cadmium is 0.0005 mg/L when the hardness as CaCO3 (mg/L) is >100
(6) The IPWQO for lead is 0.005 mg/L when the hardness as CaCO3 (mg/L) is >80
(*) The PWQO is for Dissolved Metals
' -- No data or Standard available.
ND Not detected at the associated detection limit (DL).
µg/L microgram/liter
cfu / colony forming units/milliliter
Concentration greater then referenced 2011 Table 2 Criteria.

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

			Sample ID:	W-11210029-20201015-42	W-11210029-20201022-44	W-11210029-20201029-46	W-11210029-20201105- 48	W-11210029-20201112-50	W-11210029-20201119-52	W-11210029-20201126-54
			Report No.	L2517112-1	L2520323-1	L2523350-1	L2526411-1	L2528910-1	L2531509-1	L2534021-1
			Sample Date:	October 15 2020	October 22 2020	October 29 2020	November 5 2020	November 12 2020	November 19 2020	November 26 2020
	Table 2 Standards [2]	PWQO/ IPWQO [3]								
	2011	1999	Units							
Metals										
Aluminum	--	**75***	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	576	<5.0
Antimony	6	20	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.23	<0.1
Arsenic	25	5	µg/L	5.35	5.48	5.55	5.61	6.56	1.08	5.56
Barium	1000	--	µg/L	53.7	52.3	48.7	48	57.1	25.3	53.6
Beryllium (4)	4	1100	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bismuth	--	--	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Boron (total)	5000	**200**	µg/L	<10.0	<10.0	<10.0	<10.0	<10.0	19	<10.0
Cadmium (5)	2.7	0.5	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.0226	<0.005
Calcium	--	--	µg/L	70500	74800	66100	72400	73000	38600	67400
Cesium	--	--	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01
Chromium	50	8.9	µg/L	0.83	<0.5	<0.5	<0.5	<0.5	1.15	<0.5
Chromium, Hexavalent	25	1	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	3.8	0.9	µg/L	0.11	0.19	0.11	<0.1	0.11	0.35	<0.1
Copper	87	**5**	µg/L	<0.5	1	1	<0.5	<0.5	2.17	<0.5
Iron	--	**300**	µg/L	520	432	478	386	620	690	403
Lead (6)	10	5	µg/L	0.072	0.647	0.135	<0.05	0.103	1.82	<0.05
Lithium	--	--	µg/L	3.0	4.2	3.3	4.1	3.3	<1.0	3.9
Magnesium	--	--	µg/L	33300	34300	31900	31800	34000	8280	32300
Manganese	--	--	µg/L	10.6	10.7	9.95	9.18	11.4	32.4	9.94
Mercury	0.29	**0.2***	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Molybdenum	70	40	µg/L	0.586	0.58	0.563	0.531	0.599	2.98	0.601
Nickel	100	25	µg/L	1.39	3.01	1.98	<0.5	0.89	1.32	<0.5
Phosphorus	--	--	µg/L	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Potassium	--	--	µg/L	930	1020	967	921	1040	2960	984
Rubidium	--	--	µg/L	<0.2	0.21	<0.2	<0.2	0.23	1.18	<0.2
Selenium	10	100	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	0.121	<0.05
Silicon	--		µg/L	9130	9290	8470	8250	9290	1260	9010
Silver	1.5	0.1	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sodium	490000	--	µg/L	7640	8040	7710	7510	8030	34800	7420
Strontium	--	--	µg/L	150	153	144	147	160	111	155
Sulfur	--	--	µg/L	20700	20300	17700	19100	19900	7870	20600
Tellurium	--	--	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	2.0	0.3	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Thorium	--	--	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tin	--	--	µg/L	<0.1	0.17	<0.1	<0.1	<0.1	0.11	<0.1
Titanium	--	--	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	17.5	<0.3
Tungsten	--	30.0	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Uranium	20.0	5.0	µg/L	0.247	0.264	0.268	0.261	0.264	0.653	0.241
Vanadium	6.2	6.0	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	1.56	<0.5
Zinc	1100	**20**	µg/L	14.2	8.2	9.1	3	39.3	8.4	3.7
Zirconium	--	**4**	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	0.29	<0.2
Total Plate Count	--	--	cfu/mL							
E. coli	--	100 cfu/100 mL	cfu/100 mL							

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

			Sample ID:	W-11210029-20201015-42	W-11210029-20201022-44	W-11210029-20201029-46	W-11210029-20201105- 48	W-11210029-20201112-50	W-11210029-20201119-52	W-11210029-20201126-54
			Report No.	L2517112-1	L2520323-1	L2523350-1	L2526411-1	L2528910-1	L2531509-1	L2534021-1
			Sample Date:	October 15 2020	October 22 2020	October 29 2020	November 5 2020	November 12 2020	November 19 2020	November 26 2020
	Table 2 Standards [2]	PWQO/ IPWQO [3]								
	2011	1999	Units							
Volatile Organic Compounds (Water)										
Acetone	2700		µg/L	<30	<30	<30	<30	<30	<30	<30
Benzene	5	100	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	16	200	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	25	60	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	0.89	0.9	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	0.79		µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	30	15	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	25		µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	2.4		µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane			µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	3	2.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	59	2.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	1	4	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	590		µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	5	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	1.6	100	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	40	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	1.6	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	50	100	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5	0.7	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	0.5		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	0.5		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene (cis & trans	0.5		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2.4	8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Hexane	51		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Ethyl Ketone	1800	400	µg/L	<20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	640		µg/L	<20	<20	<20	<20	<20	<20	<20
MTBE	15	200	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	5.4	4	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	1.1	20	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	1	70	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	24	0.8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	200	10	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	4.7	800	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	20	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	150		µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	0.5	600	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene		40	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
m+p-Xylenes			µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylenes (Total)	300		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

			Sample ID:	W-11210029-20201015-42	W-11210029-20201022-44	W-11210029-20201029-46	W-11210029-20201105- 48	W-11210029-20201112-50	W-11210029-20201119-52	W-11210029-20201126-54
			Report No.	L2517112-1	L2520323-1	L2523350-1	L2526411-1	L2528910-1	L2531509-1	L2534021-1
			Sample Date:	October 15 2020	October 22 2020	October 29 2020	November 5 2020	November 12 2020	November 19 2020	November 26 2020
	Table 2 Standards [2]	PWQO/ IPWQO [3]								
	2011	1999	Units							
Hydrocarbons (Water)										
F1 (C6-C10)	750		µg/L	<25	<25	<25	<25	<25	<25	<25
F1-BTEX			µg/L	<25	<25	<25	<25	<25	<25	<25
F2 (C10-C16)	150		µg/L	<100	<100	<100	<100	<100	<100	<100
F2-Naphth			µg/L	<100	<100	<100	<100	<100	<100	<100
F3 (C16-C34)	500		µg/L	<250	<250	<250	<250	<250	<250	<250
F3-PAH			µg/L	<250	<250	<250	<250	<250	<250	<250
F4 (C34-C50)	500		µg/L	<250	<250	<250	<250	<250	<250	<250
Total Hydrocarbons (C6-C50)			µg/L	<370	<370	<370	<370	<370	<370	<370
Semi-Volatile Organics (Water)										
Biphenyl	0.5	0.2	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
4-Chloroaniline	10		µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Bis(2-chloroethyl)ether	5	200	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Bis(2-chloroisopropyl)ether	120		µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2-Chlorophenol	8.9		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
3,3'-Dichlorobenzidine	0.5	0.6	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4-Dichlorophenol	20	0.2	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Diethylphthalate	38		µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dimethylphthalate	38		µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2,4-Dimethylphenol	59	8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dinitrophenol	10	10	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,4-Dinitrotoluene	5	4	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,6-Dinitrotoluene	5	6	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4+2,6-Dinitrotoluene	5		µg/L	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
Bis(2-ethylhexyl)phthalate	10		µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Pentachlorophenol	30	0.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Phenol	890	5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	70	0.5	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4,5-Trichlorophenol	8.9	18	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2,4,6-Trichlorophenol	2	18	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Polychlorinated Biphenyls (Water)										
Aroclor 1242			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1248			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1254			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1260			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Total PCBs	3	0.001	µg/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Aggregate Organics (Water)										
BOD			µg/L							

Table 1

Pond Surface Water Analytical Data (May to November 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

	Table 2 Standards [2] 2011	PWQO/ IPWQO [3] 1999	Units							
			Sample ID:	**W-11210029-20201015-42**	**W-11210029-20201022-44**	**W-11210029-20201029-46**	**W-11210029-20201105- 48**	**W-11210029-20201112-50**	**W-11210029-20201119-52**	**W-11210029-20201126-54**
			Report No.	**L2517112-1**	**L2520323-1**	**L2523350-1**	**L2526411-1**	**L2528910-1**	**L2531509-1**	**L2534021-1**
			Sample Date:	**October 15 2020**	**October 22 2020**	**October 29 2020**	**November 5 2020**	**November 12 2020**	**November 19 2020**	**November 26 2020**
Physical Tests (Water)										
pH			pH units							
Total Suspended Solids			µg/L							
Anions and Nutrients (Water)										
Phosphorus, Total			µg/L	4.2	6.2	6.3	5.6	5.7	29.4	4.9
Organic / Inorganic Carbon (Water)										
Total Organic Carbon			µg/L							
Polycyclic Aromatic Hydrocarbons (Water)										
Acenaphthene	4.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Acenaphthylene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anthracene	2.4		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)anthracene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)pyrene	0.01		µg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b)fluoranthene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(g,h,i)perylene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(k)fluoranthene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chrysene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenzo(ah)anthracene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluoranthene	0.41		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluorene	120		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1+2-Methylnaphthalenes	3.2		µg/L	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
1-Methylnaphthalene	3.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
2-Methylnaphthalene	3.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Naphthalene	11		µg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Pyrene	4.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

Notes:

(1) Data from Guelph Chemical Laboratories Ltd. (GCL) reports for pond water samples collected by Badger on monthly basis from January 2017 to December 2019.
(2) Full Depth Generic Site Condition Standards in a Potable Ground Water Condition All Types of Property Use, as provided in the Table 2 of the MECP document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011.
(3) PWQO=Provincial Water Quality Objective, MECP, February 1999
IPWQO= Interim Provincial Water Quality Objective, MECP, February 1999
(4) The PWQO for beryllium is 1.1 mg/L when the hardness as CaCO3 (mg/L) is >75
(5) The IPWQO for cadmium is 0.0005 mg/L when the hardness as CaCO3 (mg/L) is >100
(6) The IPWQO for lead is 0.005 mg/L when the hardness as CaCO3 (mg/L) is >80
(*) The PWQO is for Dissolved Metals
-- No data or Standard available.
ND Not detected at the associated detection limit (DL).
µg/L microgram/liter
cfu / colony forming units/milliliter
Concentration greater then referenced 2011 Table 2 Criteria.

Table 2A

Summary of Water Supply A Zone Groundwater Quality
(July and August 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

		Location:	**Water Supply A Zone**	**Water Supply A Zone**	**Water Supply A Zone**
		Sample ID:	**W-11210029-20200702-12**	**W-11210029-20200723-18**	**W-11210029-20200813-24**
		Report No.	**L2468705-1**	**L2478867-1**	**L2488954-1**
		Sample Date:	**July 2 2020**	**July 23 2020**	**August 13 2020**
	Table 2 Standards [2] 2011	**Units**			
Metals					
Aluminum	--	µg/L	<5.0	<5.0	19.2
Antimony	6	µg/L	<0.1	<0.1	<0.1
Arsenic	25	µg/L	5.17	2.24	3.64
Barium	1000	µg/L	49.5	50.6	77.9
Beryllium (4)	4	µg/L	<0.1	<0.1	<0.1
Bismuth	--	µg/L	<0.05	<0.05	<0.05
Boron (total)	5000	µg/L	<10.0	<10.0	14
Cadmium (5)	2.7	µg/L	<0.005	<0.005	<0.005
Calcium	--	µg/L	70600	68300	48500
Cesium	--	µg/L	<0.01	<0.01	<0.01
Chromium	50	µg/L	<0.5	<0.5	<0.5
Chromium, Hexavalent	25	µg/L	<0.5	<0.5	<0.5
Cobalt	3.8	µg/L	0.11	<0.1	<0.1
Copper	87	µg/L	<0.5	4	<0.5
Iron	--	µg/L	400	22	244
Lead (6)	10	µg/L	0.227	0.268	0.083
Lithium	--	µg/L	3.4	3.9	3.2
Magnesium	--	µg/L	32600	31800	25600
Manganese	--	µg/L	10.8	7.64	8.13
Mercury	0.29	µg/L	<0.005	<0.005	<0.005
Molybdenum	70	µg/L	0.559	0.632	0.655
Nickel	100	µg/L	1.7	0.86	<0.5
Phosphorus	--	µg/L	<50.0	<50.0	<50.0
Potassium	--	µg/L	978	996	979
Rubidium	--	µg/L	<0.2	0.21	0.35
Selenium	10	µg/L	<0.05	<0.05	<0.05
Silicon	--	µg/L	8890	9290	7300
Silver	1.5	µg/L	<0.05	<0.05	<0.05
Sodium	490000	µg/L	7790	7510	5750
Strontium	--	µg/L	148	146	348
Sulfur	--	µg/L	20200	20100	7710
Tellurium	--	µg/L	<0.2	<0.2	<0.2
Thallium	2.0	µg/L	<0.01	<0.01	<0.01
Thorium	--	µg/L	<0.1	<0.1	<0.1
Tin	--	µg/L	<0.1	<0.1	<0.1
Titanium	--	µg/L	<0.3	<0.3	0.62
Tungsten	--	µg/L	<0.1	<0.1	<0.1
Uranium	20.0	µg/L	0.252	0.296	0.383
Vanadium	6.2	µg/L	<0.5	<0.5	<0.5
Zinc	1100	µg/L	5.4	5.0	<3.0
Zirconium	--	µg/L	<0.2	<0.2	<0.2
Total Plate Count	--	cfu/mL			
E. coli	--	cfu/100 mL			

Table 2A

Summary of Water Supply A Zone Groundwater Quality
(July and August 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

		Location:	**Water Supply A Zone**	**Water Supply A Zone**	**Water Supply A Zone**
		Sample ID:	**W-11210029-20200702-12**	**W-11210029-20200723-18**	**W-11210029-20200813-24**
		Report No.	**L2468705-1**	**L2478867-1**	**L2488954-1**
		Sample Date:	**July 2 2020**	**July 23 2020**	**August 13 2020**
	Table 2 Standards [2] 2011	**Units**			
Volatile Organic Compounds					
Acetone	2700	µg/L	<30	<30	<30
Benzene	5	µg/L	<0.50	<0.50	<0.50
Bromodichloromethane	16	µg/L	<2.0	<2.0	<2.0
Bromoform	25	µg/L	<5.0	<5.0	<5.0
Bromomethane	0.89	µg/L	<0.50	<0.50	<0.50
Carbon tetrachloride	0.79	µg/L	<0.20	<0.20	<0.20
Chlorobenzene	30	µg/L	<0.50	<0.50	<0.50
Dibromochloromethane	25	µg/L	<2.0	<2.0	<2.0
Chloroform	2.4	µg/L	<1.0	<1.0	<1.0
1,2-Dibromoethane		µg/L	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	3	µg/L	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	59	µg/L	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	1	µg/L	<0.50	<0.50	<0.50
Dichlorodifluoromethane	590	µg/L	<2.0	<2.0	<2.0
1,1-Dichloroethane	5	µg/L	<0.50	<0.50	<0.50
1,2-Dichloroethane	1.6	µg/L	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Methylene Chloride	50	µg/L	<5.0	<5.0	<5.0
1,2-Dichloropropane	5	µg/L	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	0.5	µg/L	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	0.5	µg/L	<0.30	<0.30	<0.30
1,3-Dichloropropene (cis & trans)	0.5	µg/L	<0.50	<0.50	<0.50
Ethylbenzene	2.4	µg/L	<0.50	<0.50	<0.50
n-Hexane	51	µg/L	<0.50	<0.50	<0.50
Methyl Ethyl Ketone	1800	µg/L	<20	<20	<20
Methyl Isobutyl Ketone	640	µg/L	<20	<20	<20
MTBE	15	µg/L	<2.0	<2.0	<2.0
Styrene	5.4	µg/L	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	1.1	µg/L	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	1	µg/L	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Toluene	24	µg/L	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	200	µg/L	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	4.7	µg/L	<0.50	<0.50	<0.50
Trichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Trichlorofluoromethane	150	µg/L	<5.0	<5.0	<5.0
Vinyl chloride	0.5	µg/L	<0.50	<0.50	<0.50
o-Xylene		µg/L	<0.30	<0.30	<0.30
m+p-Xylenes		µg/L	<0.40	<0.40	<0.40
Xylenes (Total)	300	µg/L	<0.50	<0.50	<0.50

Table 2A

Summary of Water Supply A Zone Groundwater Quality
(July and August 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

		Location:	Water Supply A Zone	Water Supply A Zone	Water Supply A Zone
		Sample ID:	W-11210029-20200702-12	W-11210029-20200723-18	W-11210029-20200813-24
		Report No.	L2468705-1	L2478867-1	L2488954-1
		Sample Date:	July 2 2020	July 23 2020	August 13 2020
	Table 2 Standards [2] 2011	Units			
Hydrocarbons					
F1 (C6-C10)	750	µg/L	<25	<25	<25
F1-BTEX		µg/L	<25	<25	<25
F2 (C10-C16)	150	µg/L	<100	<100	<100
F2-Naphth		µg/L	<100	<100	<100
F3 (C16-C34)	500	µg/L	<250	<250	<250
F3-PAH		µg/L	<250	<250	<250
F4 (C34-C50)	500	µg/L	<250	<250	<250
Total Hydrocarbons (C6-C50)		µg/L	<370	<370	<370
Semi-Volatile Organics					
Biphenyl	0.5	µg/L	<0.40	<0.40	<0.40
4-Chloroaniline	10	µg/L	<0.40	<0.40	<0.40
Bis(2-chloroethyl)ether	5	µg/L	<0.40	<0.40	<0.40
Bis(2-chloroisopropyl)ether	120	µg/L	<0.40	<0.40	<0.40
2-Chlorophenol	8.9	µg/L	<0.30	<0.30	<0.30
3,3'-Dichlorobenzidine	0.5	µg/L	<0.40	<0.40	<0.40
2,4-Dichlorophenol	20	µg/L	<0.30	<0.30	<0.30
Diethylphthalate	38	µg/L	<0.20	<0.20	<0.20
Dimethylphthalate	38	µg/L	<0.20	<0.20	<0.20
2,4-Dimethylphenol	59	µg/L	<0.50	<0.50	<0.50
2,4-Dinitrophenol	10	µg/L	<2.0	<2.0	<2.0
2,4-Dinitrotoluene	5	µg/L	<0.40	<0.40	<0.40
2,6-Dinitrotoluene	5	µg/L	<0.40	<0.40	<0.40
2,4+2,6-Dinitrotoluene	5	µg/L	<0.57	<0.57	<0.57
Bis(2-ethylhexyl)phthalate	10	µg/L	<2.0	<2.0	<2.0
Pentachlorophenol	30	µg/L	<0.50	<0.50	<0.50
Phenol	890	µg/L	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	70	µg/L	<0.40	<0.40	<0.40
2,4,5-Trichlorophenol	8.9	µg/L	<0.20	<0.20	<0.20
2,4,6-Trichlorophenol	2	µg/L	<0.20	<0.20	<0.20
Polychlorinated Biphenyls					
Aroclor 1242		µg/L	<0.020	<0.020	<0.020
Aroclor 1248		µg/L	<0.020	<0.020	<0.020
Aroclor 1254		µg/L	<0.020	<0.020	<0.020
Aroclor 1260		µg/L	<0.020	<0.020	<0.020
Total PCBs	3	µg/L	<0.040	<0.040	<0.040
Aggregate Organics					
BOD		µg/L			
Physical Tests					
pH		pH units			
Total Suspended Solids		µg/L			
Anions and Nutrients					
Phosphorus, Total		µg/L	5.6	<3.0	8.2
Organic / Inorganic Carbon					
Total Organic Carbon		µg/L			

Table 2A

Summary of Water Supply A Zone Groundwater Quality
(July and August 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

		Location:	**Water Supply A Zone**	**Water Supply A Zone**	**Water Supply A Zone**
		Sample ID:	**W-11210029-20200702-12**	**W-11210029-20200723-18**	**W-11210029-20200813-24**
		Report No.	**L2468705-1**	**L2478867-1**	**L2488954-1**
		Sample Date:	**July 2 2020**	**July 23 2020**	**August 13 2020**
	Table 2 Standards [2] 2011	**Units**			
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	4.1	µg/L	<0.020	<0.020	<0.020
Acenaphthylene	1	µg/L	<0.020	<0.020	<0.020
Anthracene	2.4	µg/L	<0.020	<0.020	<0.020
Benzo(a)anthracene	1	µg/L	<0.020	<0.020	<0.020
Benzo(a)pyrene	0.01	µg/L	<0.010	<0.010	<0.010
Benzo(b)fluoranthene	0.1	µg/L	<0.020	<0.020	<0.020
Benzo(g,h,i)perylene	0.2	µg/L	<0.020	<0.020	<0.020
Benzo(k)fluoranthene	0.1	µg/L	<0.020	<0.020	<0.020
Chrysene	0.1	µg/L	<0.020	<0.020	<0.020
Dibenzo(ah)anthracene	0.2	µg/L	<0.020	<0.020	<0.020
Fluoranthene	0.41	µg/L	<0.020	<0.020	<0.020
Fluorene	120	µg/L	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	0.2	µg/L	<0.020	<0.020	<0.020
1+2-Methylnaphthalenes	3.2	µg/L	<0.028	<0.028	<0.028
1-Methylnaphthalene	3.2	µg/L	<0.020	<0.020	<0.020
2-Methylnaphthalene	3.2	µg/L	<0.020	<0.020	<0.020
Naphthalene	11	µg/L	<0.050	<0.050	<0.050
Phenanthrene	1	µg/L	<0.020	<0.020	<0.020
Pyrene	4.1	µg/L	<0.020	<0.020	<0.020

Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition.

Table 2B

Summary of Water Supply EXI Zone Groundwater Quality
(July and August 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

		Location:	Water Supply EXI Zone	Water Supply EXI Zone	Water Supply EXI Zone
		Sample ID:	W-11210029-20200709-14	W-11210029-20200730-20	W-11210029-20200813-26
		Report No.	L2472292-1	L2482453-1	L2491984
		Sample Date:	July 9 2020	July 30 2020	August 20 2020
	Table 2 Standards[2] 2011	**Units**			
Metals					
Aluminum	--	µg/L	6.6	8.0	<5.0
Antimony	6	µg/L	<0.1	<0.1	<0.1
Arsenic	25	µg/L	5.8	3.62	2.80
Barium	1000	µg/L	65.3	70.5	49.2
Beryllium (4)	4	µg/L	<0.1	<0.1	<0.1
Bismuth	--	µg/L	<0.05	<0.05	<0.05
Boron (total)	5000	µg/L	14	14.0	<10
Cadmium (5)	2.7	µg/L	<0.005	<0.005	<0.005
Calcium	--	µg/L	46600	47800	68200
Cesium	--	µg/L	<0.01	<0.01	<0.01
Chromium	50	µg/L	<0.5	<0.5	<0.5
Chromium, Hexavalent	25	µg/L	<0.5	<0.5	<0.5
Cobalt	3.8	µg/L	<0.1	<0.1	<0.1
Copper	87	µg/L	<0.5	<0.5	2.22
Iron	--	µg/L	281	265	79
Lead (6)	10	µg/L	<0.05	<0.05	0.166
Lithium	--	µg/L	2.6	3.6	4.5
Magnesium	--	µg/L	27300	26600	34100
Manganese	--	µg/L	9.31	7.61	9.68
Mercury	0.29	µg/L	<0.005	<0.005	<0.005
Molybdenum	70	µg/L	0.703	0.668	0.589
Nickel	100	µg/L	<0.5	<0.5	<0.5
Phosphorus	--	µg/L	<50.0	<50.0	<50
Potassium	--	µg/L	995	991	937
Rubidium	--	µg/L	0.34	0.38	<0.2
Selenium	10	µg/L	<0.05	<0.05	<0.05
Silicon	--	µg/L	7600	7430	8950
Silver	1.5	µg/L	<0.05	<0.05	<0.05
Sodium	490000	µg/L	5880	5970	7880
Strontium	--	µg/L	322	356	147
Sulfur	--	µg/L	7150	8040	20400
Tellurium	--	µg/L	<0.2	<0.2	<0.2
Thallium	2.0	µg/L	<0.01	<0.01	<0.01
Thorium	--	µg/L	<0.1	<0.1	<0.1
Tin	--	µg/L	<0.1	<0.1	<0.1
Titanium	--	µg/L	<0.3	<0.3	<0.3
Tungsten	--	µg/L	<0.1	<0.1	<0.1
Uranium	20.0	µg/L	0.59	0.397	0.228
Vanadium	6.2	µg/L	<0.5	<0.5	<0.5
Zinc	1100	µg/L	<3.0	<3.0	4.1
Zirconium	--	µg/L	<0.2	<0.2	<0.2
Total Plate Count	--	cfu/mL			
E. coli	--	cfu/100 mL			

Table 2B

Summary of Water Supply EXI Zone Groundwater Quality
(July and August 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

		Location:	Water Supply EXI Zone	Water Supply EXI Zone	Water Supply EXI Zone
		Sample ID:	W-11210029-20200709-14	W-11210029-20200730-20	W-11210029-20200813-26
		Report No.	L2472292-1	L2482453-1	L2491984
		Sample Date:	July 9 2020	July 30 2020	August 20 2020
	Table 2 Standards[2] 2011	**Units**			
Volatile Organic Compounds					
Acetone	2700	µg/L	<30	<30	<30
Benzene	5	µg/L	<0.50	<0.50	<0.50
Bromodichloromethane	16	µg/L	<2.0	<2.0	<2.0
Bromoform	25	µg/L	<5.0	<5.0	<5.0
Bromomethane	0.89	µg/L	<0.50	<0.50	<0.50
Carbon tetrachloride	0.79	µg/L	<0.20	<0.20	<0.20
Chlorobenzene	30	µg/L	<0.50	<0.50	<0.50
Dibromochloromethane	25	µg/L	<2.0	<2.0	<2.0
Chloroform	2.4	µg/L	<1.0	<1.0	<1.0
1,2-Dibromoethane		µg/L	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	3	µg/L	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	59	µg/L	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	1	µg/L	<0.50	<0.50	<0.50
Dichlorodifluoromethane	590	µg/L	<2.0	<2.0	<2.0
1,1-Dichloroethane	5	µg/L	<0.50	<0.50	<0.50
1,2-Dichloroethane	1.6	µg/L	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Methylene Chloride	50	µg/L	<5.0	<5.0	<5.0
1,2-Dichloropropane	5	µg/L	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	0.5	µg/L	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	0.5	µg/L	<0.30	<0.30	<0.30
1,3-Dichloropropene (cis & trans)	0.5	µg/L	<0.50	<0.50	<0.50
Ethylbenzene	2.4	µg/L	<0.50	<0.50	<0.50
n-Hexane	51	µg/L	<0.50	<0.50	<0.50
Methyl Ethyl Ketone	1800	µg/L	<20	<20	<20
Methyl Isobutyl Ketone	640	µg/L	<20	<20	<20
MTBE	15	µg/L	<2.0	<2.0	<2.0
Styrene	5.4	µg/L	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	1.1	µg/L	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	1	µg/L	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Toluene	24	µg/L	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	200	µg/L	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	4.7	µg/L	<0.50	<0.50	<0.50
Trichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Trichlorofluoromethane	150	µg/L	<5.0	<5.0	<5.0
Vinyl chloride	0.5	µg/L	<0.50	<0.50	<0.50
o-Xylene		µg/L	<0.30	<0.30	<0.30
m+p-Xylenes		µg/L	<0.40	<0.40	<0.40
Xylenes (Total)	300	µg/L	<0.50	<0.50	<0.50

Table 2B

Summary of Water Supply EXI Zone Groundwater Quality
(July and August 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

		Location:	Water Supply EXI Zone	Water Supply EXI Zone	Water Supply EXI Zone
		Sample ID:	W-11210029-20200709-14	W-11210029-20200730-20	W-11210029-20200813-26
		Report No.	L2472292-1	L2482453-1	L2491984
		Sample Date:	July 9 2020	July 30 2020	August 20 2020
	Table 2 Standards[2] 2011	**Units**			
Hydrocarbons					
F1 (C6-C10)	750	µg/L	<25	<25	<25
F1-BTEX		µg/L	<25	<25	<25
F2 (C10-C16)	150	µg/L	<100	<100	<100
F2-Naphth		µg/L	<100	<100	<100
F3 (C16-C34)	500	µg/L	<250	<250	<250
F3-PAH		µg/L	<250	<250	<250
F4 (C34-C50)	500	µg/L	<250	<250	<250
Total Hydrocarbons (C6-C50)		µg/L	<370	<370	<370
Semi-Volatile Organics					
Biphenyl	0.5	µg/L	<0.40	<0.40	<0.40
4-Chloroaniline	10	µg/L	<0.40	<0.40	<0.40
Bis(2-chloroethyl)ether	5	µg/L	<0.40	<0.40	<0.40
Bis(2-chloroisopropyl)ether	120	µg/L	<0.40	<0.40	<0.40
2-Chlorophenol	8.9	µg/L	<0.30	<0.30	<0.30
3,3'-Dichlorobenzidine	0.5	µg/L	<0.40	<0.40	<0.40
2,4-Dichlorophenol	20	µg/L	<0.30	<0.30	<0.30
Diethylphthalate	38	µg/L	<0.20	<0.20	0.25
Dimethylphthalate	38	µg/L	<0.20	<0.20	<0.20
2,4-Dimethylphenol	59	µg/L	<0.50	<0.50	<0.50
2,4-Dinitrophenol	10	µg/L	<2.0	<2.0	<1.0
2,4-Dinitrotoluene	5	µg/L	<0.40	<0.40	<0.40
2,6-Dinitrotoluene	5	µg/L	<0.40	<0.40	<0.40
2,4+2,6-Dinitrotoluene	5	µg/L	<0.57	<0.57	<0.57
Bis(2-ethylhexyl)phthalate	10	µg/L	<2.0	<2.0	<2.0
Pentachlorophenol	30	µg/L	<0.50	<0.50	<0.50
Phenol	890	µg/L	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	70	µg/L	<0.40	<0.40	<0.40
2,4,5-Trichlorophenol	8.9	µg/L	<0.20	<0.20	<0.20
2,4,6-Trichlorophenol	2	µg/L	<0.20	<0.20	<0.20
Polychlorinated Biphenyls					
Aroclor 1242		µg/L	<0.020	<0.020	<0.020
Aroclor 1248		µg/L	<0.020	<0.020	<0.020
Aroclor 1254		µg/L	<0.020	<0.020	<0.020
Aroclor 1260		µg/L	<0.020	<0.020	<0.020
Total PCBs	3	µg/L	<0.040	<0.040	<0.040
Aggregate Organics					
BOD		µg/L			
Physical Tests					
pH		pH units			
Total Suspended Solids		µg/L			
Anions and Nutrients					
Phosphorus, Total		µg/L	<3.0	3.4	3.8
Organic / Inorganic Carbon					
Total Organic Carbon		µg/L			

Table 2B

Summary of Water Supply EXI Zone Groundwater Quality
(July and August 2020)
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

		Location:	**Water Supply EXI Zone**	**Water Supply EXI Zone**	**Water Supply EXI Zone**
		Sample ID:	**W-11210029-20200709-14**	**W-11210029-20200730-20**	**W-11210029-20200813-26**
		Report No.	**L2472292-1**	**L2482453-1**	**L2491984**
		Sample Date:	**July 9 2020**	**July 30 2020**	**August 20 2020**
	Table 2 Standards[2] 2011	**Units**			
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	4.1	µg/L	<0.020	<0.020	<0.020
Acenaphthylene	1	µg/L	<0.020	<0.020	<0.020
Anthracene	2.4	µg/L	<0.020	<0.020	<0.020
Benzo(a)anthracene	1	µg/L	<0.020	<0.020	<0.020
Benzo(a)pyrene	0.01	µg/L	<0.010	<0.010	<0.010
Benzo(b)fluoranthene	0.1	µg/L	<0.020	<0.020	<0.020
Benzo(g,h,i)perylene	0.2	µg/L	<0.020	<0.020	<0.020
Benzo(k)fluoranthene	0.1	µg/L	<0.020	<0.020	<0.020
Chrysene	0.1	µg/L	<0.020	<0.020	<0.020
Dibenzo(ah)anthracene	0.2	µg/L	<0.020	<0.020	<0.020
Fluoranthene	0.41	µg/L	<0.020	<0.020	<0.020
Fluorene	120	µg/L	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	0.2	µg/L	<0.020	<0.020	<0.020
1+2-Methylnaphthalenes	3.2	µg/L	<0.028	<0.028	<0.028
1-Methylnaphthalene	3.2	µg/L	<0.020	<0.020	<0.020
2-Methylnaphthalene	3.2	µg/L	<0.020	<0.020	<0.020
Naphthalene	11	µg/L	<0.050	<0.050	<0.050
Phenanthrene	1	µg/L	<0.020	<0.020	<0.020
Pyrene	4.1	µg/L	<0.020	<0.020	<0.020

Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition.

Table 3

Design Storms - Intensity Duration Frequency Parameters
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

Return Period	Storm Type	Rainfall Depth 1 (mm)	Duration (hr)
2-Year	SCS Type II	60.1	24
5-Year	SCS Type II	79.4	24
10-Year	SCS Type II	92.1	24
25-Year	SCS Type II	108.0	24
50-Year	SCS Type II	120.0	24
100-Year	SCS Type II	131.7	24

1. Rainfall depth obtained from the Ontario Ministry of Transportation, IDF Curve Lookup tool, Retrieved: December 15, 2020

Table 4

Hydrologic Modelling Catchment Parameters - Existing Conditions
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

Existing Conditions

Subcatchment ID	Area	Width	Flow Length	Slope	Imperviousness	Manning' n		Depression Storage		Infiltration (Horton)	
						Imperv.	Perv.	Imperv.	Perv.	Max	Min
	ha	m	m	%	%	(-)	(-)	mm	mm	(mm/hr)	(mm/hr)
A101	2.16	93	233	0.6	3	0.013	0.24	2.5	5.0	76.2	29.97
A102	3.72	120	311	4.4	0	0.013	0.24	2.5	5.0	76.2	29.97
A103	6.85	118	582	7.7	0	0.013	0.24	2.5	5.0	76.2	29.97
Total	**12.73**										

Table 5

Peak Flow Summary - Existing Conditions
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

Existing Conditions	**Peak Flow**					
	24 hour SCS Type II Storm					
Subcatchment ID	***2-year***	***5-year***	***10-year***	***25-year***	***50-year***	***100-year***
	(m^3/s)	*(m^3/s)*	*(m^3/s)*	*(m^3/s)*	*(m^3/s)*	*(m^3/s)*
A101	0.02	0.03	0.05	0.07	0.09	0.11
A102	0.01	0.06	0.09	0.15	0.20	0.26
A103	0.02	0.07	0.12	0.19	0.27	0.35
On-Site SWM Pond	0.03	0.12	0.21	0.35	0.50	0.66

Table 6

Runoff Volume Summary - Existing Conditions
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

Existing Conditions	**Runoff Volume**					
	24 hour SCS Type II Storm					
Subcatchment ID	***2-year***	***5-year***	***10-year***	***25-year***	***50-year***	***100-year***
	(m³)	*(m³)*	*(m³)*	*(m³)*	*(m³)*	*(m³)*
A101	40	70	90	140	190	250
A102	10	50	110	200	320	440
A103	10	70	150	300	470	670
On-Site SWM Pond	60	190	350	640	980	1360

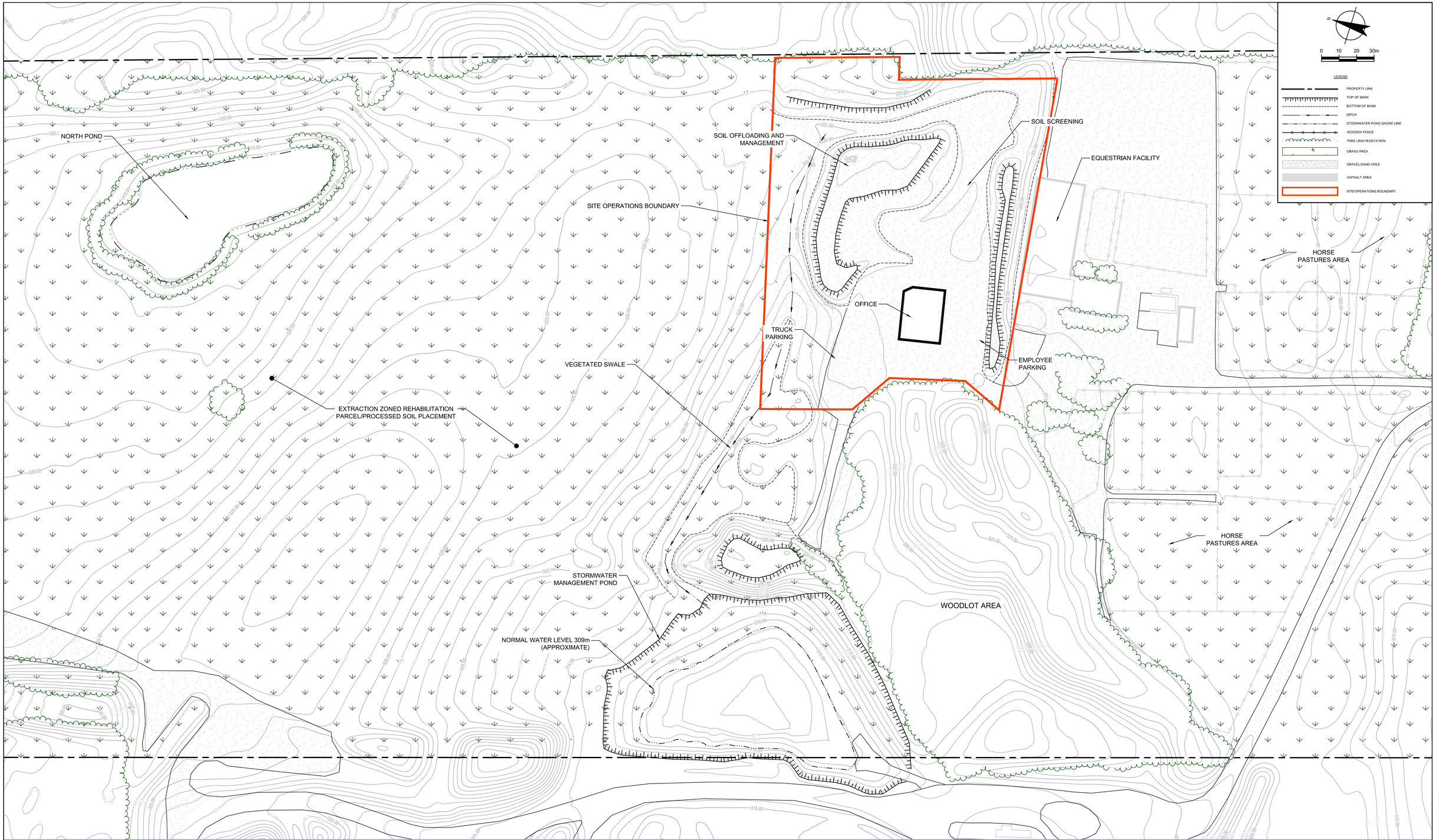
Table 7

Stormwater Management Pond Stage-Area-Volume - Existing Conditions
Stormwater Management Plan
2374868 Ontario Inc.
Township of Puslinch

Stormwater Management Pond

	Elevation (m asl)	Depth (m)	Area (m^2)	Total Volume (m^3)	Storm Event Level (m asl)	
Bottom of Pond	306.00	0.00	558	-	***309.01***	2-year SCS Type II 24h storm
	306.25	0.25	1613	271	***309.03***	5-year SCS Type II 24h storm
	306.50	0.50	2054	730	***309.06***	10-year SCS Type II 24h storm
	306.75	0.75	2377	1,284	***309.11***	25-year SCS Type II 24h storm
	307.00	1.00	2680	1,916	***309.17***	50-year SCS Type II 24h storm
	307.25	1.25	2962	2,621	***309.23***	100-year SCS Type II 24h storm
	307.50	1.50	3228	3,395		
	307.75	1.75	3505	4,236		
	308.00	2.00	3797	5,149		
	308.25	2.25	4136	6,141		
	308.50	2.50	4540	7,225		
	308.75	2.75	5009	8,419		
Permanent Pool	309.00	3.00	5543	9,738		
	309.25	3.25	6257	11,213		
	309.50	3.50	7019	12,872		
	309.75	3.75	7452	14,681		
	310.00	4.00	7910	16,601		
	310.25	4.25	8257	18,622		
	310.50	4.50	8613	20,731		
	310.75	4.75	8938	22,925		
	311.00	5.00	9271	25,201		
	311.25	5.25	9614	27,562		
	311.50	5.50	9964	30,009		
	311.75	5.75	10341	32,547		
	312.00	6.00	10729	35,181		
	312.25	6.25	11144	37,915		
	312.50	6.50	11574	40,755		
Top of Pond	312.75	6.75	12369	43,748		

Total Storage (in cubic meters):	**43,748**



No.	Issue	Drawn	Approved	Date

Bar is 20mm on original size drawing
0 20mm

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Project Manager	A. SOUTAR	Date	Feb 8, 2021
This document shall not be used for construction unless signed and sealed for construction.		Scale	

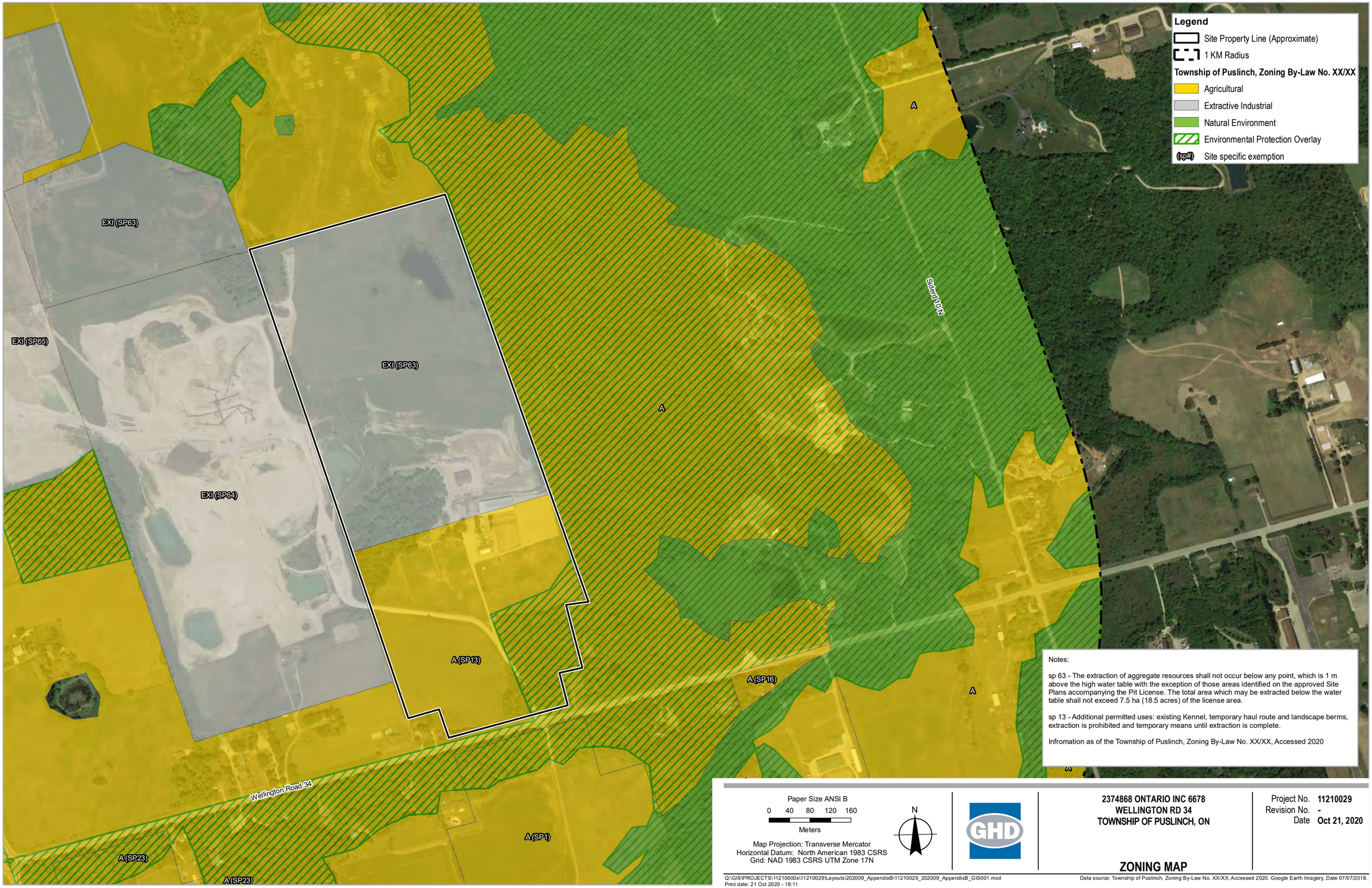
Client **2374868 ONTARIO INC.**
Project **STORMWATER MANAGEMENT REPORT**
Title **OPERATIONS EXISTING CONDITIONS SITE PLAN**

Project No. **11210029-01**
Original Size **ANSI D**
Sheet No. **C-01**
Sheet **1** of **1**

Plot Date: 8 February 2021 - 2:02 PM Plotted By: Branko Suserski Filename: N:\CA\Waterloo\Projects\662\11210029\Digital_Design\ACAD 2020\Sheets\Report 002\11210029-01(002)CI\11210029-01(002)CI-WA001.dwg

Appendices

Appendix A
Zoning Map



Notes:

sp 63 - The extraction of aggregate resources shall not occur below any point, which is 1 m above the high water table with the exception of those areas identified on the approved Site Plans accompanying the Pit License. The total area which may be extracted below the water table shall not exceed 7.5 ha (18.5 acres) of the license area.

sp 13 - Additional permitted uses: existing Kennel, temporary haul route and landscape berms, extraction is prohibited and temporary means until extraction is complete.

Infromation as of the Township of Puslinch, Zoning By-Law No. XX/XX, Accessed 2020

Paper Size ANSI B

0 40 80 120 160

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983 CSRS
Grid: NAD 1983 CSRS UTM Zone 17N

N

GHD

2374868 ONTARIO INC 6678
WELLINGTON RD 34
TOWNSHIP OF PUSLINCH, ON

ZONING MAP

Project No. **11210029**
Revision No. **-**
Date **Oct 21, 2020**

Q:\GIS\PROJECTS\11210000s\11210029\Layouts\202009_AppendixB\11210029_202009_AppendixB_GIS001.mxd
Print date: 21 Oct 2020 - 16:11

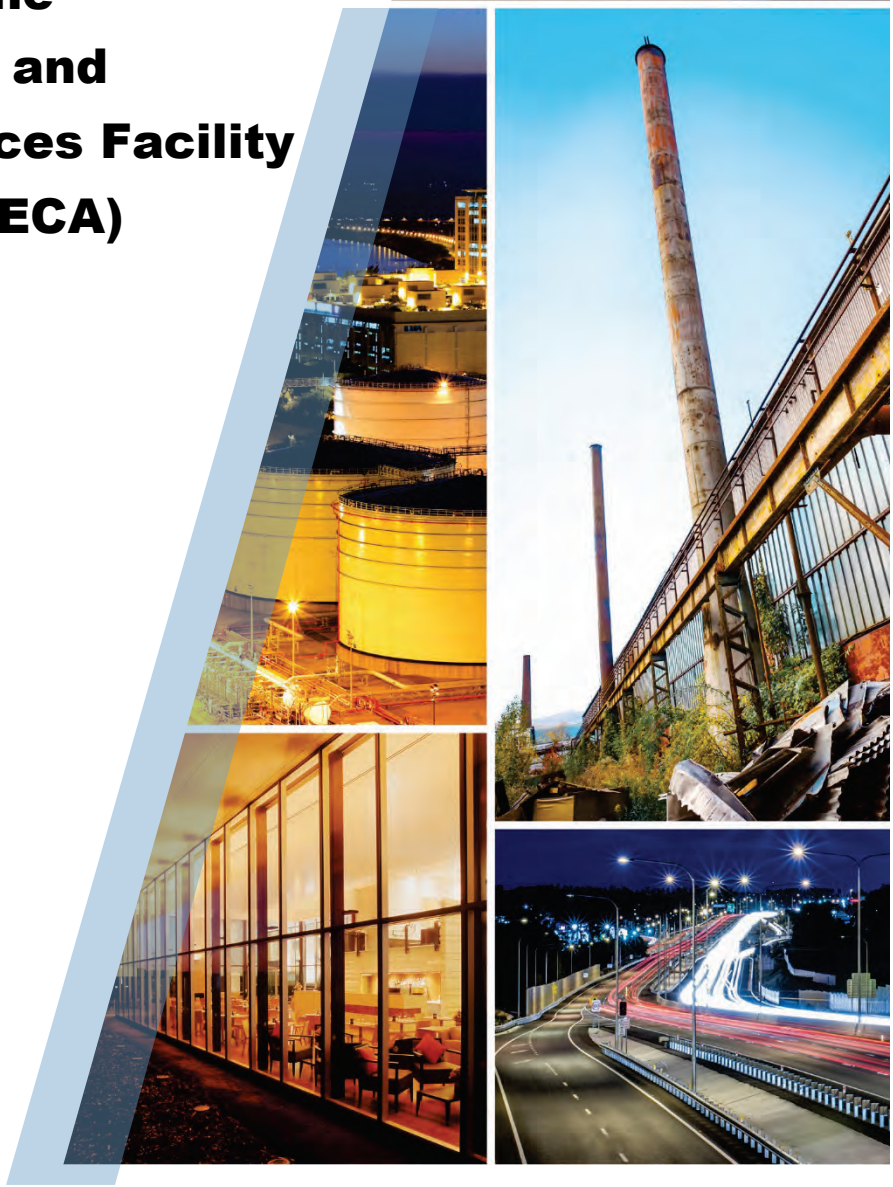
Data source: Township of Puslinch, Zoning By-Law No. XX/XX, Accessed 2020. Google Earth Imagery, Date 07/07/2018.

Appendix B
Hydrogeological Impact Assessment (HIA) Report

Hydrogeologic Impact Assessment for the Badger Hydrovac and Daylighting Services Facility (in Support of an ECA)

6678 Wellington Road 34
Cambridge, Ontario

2374868 Ontario Inc.



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1. Introduction

1.1 Purpose of the Report

Through pre-consultation with the Ministry of Environment, Conservation and Parks (MECP) for an Environmental Compliance Approval (ECA) (Waste Processing), it was determined that 2374868 Ontario Inc. (Applicant) needed to complete a Hydrogeological Impact Assessment (HIA). The MECP requested that the assessment take into account the waste and industrial sewage works operations at the Site and the potential for impact to groundwater receptors.

The Site is defined as a portion of the Property owned by the Applicant as described in Section 1.2 of this HIA Report.

The MECP specifically requested that the HIA Report include, but not be limited to, a summary of the Site geological/hydrogeological conditions, depth to water table, groundwater flow direction, hydraulic conductivities, vertical and horizontal gradients, identification of downgradient private water wells on-Site and off-Site and an assessment of the potential for impact to groundwater receptors. It was also requested by MECP that the HIA Report determine if groundwater monitoring is necessary.

1.2 Background

The Property is legally described as Lot 8, Concession 3 in Wellington County and consists of a 100 acre property. The northern two thirds of the Property is zoned as Extractive (EXI) and the southern one third is zoned as Agricultural (A). The Site within the Property is located on an approximate 31,000 square meter (m^2) portion of the EXI zoned parcel and includes the operations necessary to support the hydrovac and daylighting operations. The current zoning allows some of the Site operations and a minor zoning amendment has been submitted to Wellington County/Township of Puslinch to update the specific allowed uses.

A Property and Site location map is presented on Figure 1.1, and in more detail on Figure 1.2. An aerial photo showing the Property and features around the property is shown on Figure 1.3.

The Site receives soil mixed with water (liquid soil or waste) from hydrovac operations conducted by Site personnel and trucks at multiple sites. The hydrovac trucks work throughout southern Ontario where liquid soil is collected from utility, municipal and commercial sites to ensure that utility strikes and damage do not occur during intrusive work (e.g., utility and roadwork). No hydrovac operations are done at environmental or other sites with known soil impacts. Liquid soil loads that may be impacted (e.g., determined by Site information, visual inspection and odours) are sent directly to a permitted MECP-approved treatment or disposal facility and return to the Site after all liquid soil has been removed. The soil water mixture that returns to Site is placed on the ground surface, water drains off via gravity, and the dry soil is sampled for chemical analysis to confirm that it is acceptable for use at receiving sites.

The Applicant is applying for the following Environmental Compliance Approvals (ECAs):

- ECA (Waste Processing), including a Design and Operations Report

- ECA (Industrial Sewage Works - Stormwater) including a Stormwater Management Plan (SWMP)
- ECA (Noise), including an Acoustic Assessment Report (AAR).

Two potable wells are found on the property. One potable well is located in the EXI zoned portion of the property and the other is located in the Agricultural zoned portion of the property. MECP water well records are provided in Appendix A of this report. The locations of these two water supply wells are shown on Figure 1.2.

The supply well located within the EXI zoned portion of the Property is designated as MECP well number 6706720 and is 33.8 m deep. It obtains water from the deep overburden within gravel deposits at depths between 30.8 m and 33.8 m below ground surface (bgs), where there is presumably a 3 m screen. This is the Site ("EXI") water supply well.

The supply well located within the Agricultural zoned portion of the Property is designated as MECP well number 6705884, was originally 29.6 m deep, and was subsequently deepened. It obtains water from the bedrock from depths of 24.1 m to greater than 29.6 m bgs as an open hole in the bedrock. This is the agricultural (livestock) ("A") water supply well.

1.3 Report Organization

This HIA Report provides a complete hydrogeological impact assessment in support of an ECA, as requested by the MECP. The report is organized into the following sections:

Section 1	Introduction
Section 2	Hydrogeologic Assessment Requirements, Objectives and Scope
Section 3	Hydrogeologic Setting
Section 4	Impact Assessment
Section 5	Proposed Monitoring Program
Section 6	Summary and Recommendations
Section 7	References

2. Hydrogeologic Assessment Requirements, Objectives and Scope

2.1 Requirements and Objectives

MECP requires that Applicants complete a Hydrogeologic Impact Assessment (HIA) in support of ECA applications to evaluate the potential impact to groundwater resources. The MECP also requires that the guide to applying for an environmental compliance approval under Part C: Supporting Documentation and Technical Requirements, Section 9 – Supporting Documentation be followed for the application and required assessments.

For ECAs, there is a requirement to assess the impacts of the current works or proposed works to the environment, including groundwater resources. Subsection 4.10.4 describes the scope of work for an Environmental Impact Analysis including a groundwater (hydrogeologic) impact assessment.

Subsection 5.4 describes the minimum requirements of the Hydrogeological Report (herein referred to as the HIA Report) that is required to be submitted in support of an ECA.

Additionally, since the Township of Puslinch is not serviced by Municipal water supply, the residents rely on groundwater wells for potable drinking water supply. Because of this fact, MECP considered imperative that the Applicant complete a HIA taking into account the waste and industrial sewage works operations at the Site and the potential for impact to groundwater receptors.

MECP also requires that the HIA be prepared by a qualified person, a hydrogeologist with Professional Geoscientist designation or a Professional Engineer with relevant hydrogeological expertise.

The Applicant, despite the fact that the operations at the Site do not include handling of contaminated soil or water (the operations at the Site do not include disposal of waste), agreed to MECP's request to complete the HIA.

This HIA, as defined by MECP, includes the following components:

- a summary of the site geological/hydrogeological conditions
- depth to the water table
- groundwater flow direction
- hydraulic conductivity of the water table deposits
- vertical and horizontal gradients along and across the water table
- identification of downgradient private water wells onsite and offsite
- assessment of the potential for impact to groundwater receptors

The HIA was also completed considering the Wellington County guidelines and Source Water Protection Plans.

As required by MECP, this HIA was completed by a team including "qualified" individuals (Professional Geoscientist/Professional Engineer) who are competent by virtue of training and experience to engage in practices that would also constitute the practice of professional geosciences (i.e., hydrogeology).

2.2 Scope

There are two water supply wells within the Property, the EXI and the A supply wells, both of which are deep wells. The EXI supply well obtains groundwater from a deep overburden (gravel) water-bearing zone or aquifer at a depth of 33.8 m bgs. The A supply well obtains water from the bedrock aquifer from a depth of 24.1 m to a depth greater than 29.6 m bgs.

There are other water supply wells around the Site which are used for domestic or agricultural purposes since this area is not serviced by municipal water. The supply wells are either within the deep overburden or bedrock aquifers.

The bedrock in this area is the main aquifer for both the City of Guelph and City of Cambridge municipal water supply well fields.

The Applicant collected groundwater samples from the EXI and A supply wells on three occasions (two in July and one in August 2020) and provided the groundwater quality to MECP, to show that operations at the Site have not impacted groundwater in the vicinity of the Site. The groundwater samples were analyzed for a comprehensive suite of analytes which included total metals, polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH including the F1 to F4 fraction), semi-volatiles/ polycyclic aromatic hydrocarbons/base neutral extractables (SVOCs/PAHs/BNAS).

The groundwater quality results from both supply wells show that the water is reflective of the natural geochemistry of the deep overburden and bedrock aquifers. No VOCs, TPH, PCBs, SVOCs/PAHs/BNAs were detected above the laboratory reporting limits (RLs). The laboratory RLs were set at levels lower than the Ontario drinking water quality standards.

This clearly shows that the Site operations are not currently impacting the nearby groundwater supplies. If there was impact to nearby groundwater supplies by Site operations, then it would have shown on the groundwater quality results of these two supply wells since they are the wells located downgradient and closest to Site operations.

Additionally, the Applicant collected several surface waters samples between October and November 2020 from the storm management pond located to the northwest of the Site operations. The surface water samples were analyzed for metals, VOCs, TPH (F1 to F4), and SVOCs/PAHs/BNAs. None of the surface water samples had VOCs, TPH (F1 to F4), or SVOCs/PAHs/BNAs detections above the laboratory RLs. The laboratory set the RLs at concentrations lower that the provincial water quality objectives (PWQOs).

As with the groundwater samples collected from the two groundwater supply wells, the surface water quality data showed that Site operations are not impacting surface water.

The Applicant has also been collecting soil samples from soil piles at regular intervals since 2017 to present. The soil samples are analyzed for a comprehensive suite of analytes. The soil samples have been analyzed for saturated paste extractables, sodium adsorption ratio (SAR), metals, cyanide, VOCs, SVOCs and PCBs. Except for the 2011 Table 1 criteria for SAR, toluene and lead sporadically exceeded, the soil quality meets applicable criteria.

The Applicant provided all the data described above in support of the ECA application in November 2020.

MECP indicated that despite the favorable analytical data for groundwater, surface water and soil, the Applicant was required to complete the HIA in support of the ECA application.

With the available historical data in mind and the requirements by MECP, the Applicant designed the HIA to investigate the water table in the area where Site operations are conducted.

The HIA's main purpose was to investigate the shallowest groundwater regime (first water-bearing unit or water table) around and downgradient of the Site operations because these would be the places where groundwater impact would be detected, if operations were impacting groundwater. It is already known that the deep groundwater supplies are not being impacted from Site operations because the two deep water supply wells (A and EXI water supply wells) are clean. Surface water from the storm management pond is also clean. The historical soil quality data also shows generally clean soils.

In order to satisfy the requirements of the HIA the following tasks were completed as part of the scope:

- Task 1 - Installation of three monitoring wells in November 2020 (MW1-20 - downgradient of Site operations, MW2-20 - downgradient of Site operations, and MW3-20 - upgradient of Site operations) for the sole purpose of this HIA. The wells were installed to depths between 12.2 metres (m) and 14.3 m bgs (elevations of 307.3 m above mean sea level [AMSL] and 308.2 m AMSL) to screen the water table (shallowest groundwater regime). The three monitoring wells defined the stratigraphy, and depth to the groundwater table. Each monitoring well was constructed with a screen 3 m long, 5.08 cm in diameter and made of PVC attached to riser pipe, with an appropriate sand pack length, seal and grout and a lockable above ground protective casing.
- Task 2 - Horizontal and vertical survey of the three monitoring wells in November 2020. The wells were surveyed for vertical control with respect to elevation AMSL.
- Task 3 - Hydraulic monitoring in November and December 2020 to establish the depth to the groundwater table and consequently groundwater elevations and groundwater flow patterns.
- Task 4 - Collection of groundwater samples on 2 occasions (November and December 2020) following purging/development of the three monitoring wells. The groundwater samples were analyzed for general chemistry, total and dissolved metals, VOCs, SVOCs/PAHs/, TPH (F1 to F4) and oil and grease.
- Task 5 - Hydraulic conductivity calculation. Hydraulic conductivity was determined by completing single well response tests (slug tests) in the three monitoring wells in December 2020.
- Task 6 - Private well survey. A limited physical confirmation of the initial private well survey was completed in September 2020. Due to the Covid-19 pandemic, a more widespread physical well confirmation is not prudent at this time.
- Task 7 - Preparation of a HIA Report to define the geologic and hydrogeologic framework, and investigate the groundwater quality with the ultimate purpose of evaluating potential risk to nearby groundwater users.

3. Hydrogeologic Setting

3.1 Regional Setting

The Site is located on Wellington Road 34, east of Wellington Road 32, and north of Highway 401, in Wellington County (see Figure 1.1).

The Site is located on a Property which is legally described as Lot 8, Concession 3 and consists of a 100 acre property. As described in Section 1.2 of this Report, the northern two thirds of the Property is zoned as Extractive (EXI) and the southern one third is zoned as Agricultural (A). The Site is located on an approximate 31,000 square meter (s.m.) portion of the EXI zoned parcel.

Two potable wells are found on the Property. One potable well is located in the EXI zoned portion of the Property and the other is located in the Agricultural zoned portion of the Property.

The Property is currently primarily under agricultural use. The surrounding area is rural with small settlements, agricultural land, and an existing aggregate extraction operation.

The regional physiographic, geologic, and hydrogeologic settings in the vicinity of the Site are presented in the following sections.

3.1.1 Regional Physiography

The regional physiography and distribution of unconsolidated sediments, are mostly the result of glacial activity that took place in the late Wisconsinan substage of the Pleistocene Epoch, which ended approximately 10,000 years ago (OGS, 1998). The glacial activity in this area has created subsurface conditions that can be very variable over short distances.

The most prominent glacial features in the area are till moraines and spillways, as shown on Figure 3.1. The Property is located within a till moraine surrounded on all sides by spillways. The regional till moraines are classified as part of the Horseshoe Moraines physiographic region, and in particular the Paris and Galt moraines (Chapman and Putnam, 1984). The Paris and Galt moraine region stretches a distance of approximately 130 kilometres (km) from Caledon to Lake Erie, are upwards of 11 km in width, and have relief of upwards of 30 m. The moraines are surficial ridges that provide topographic relief for the headwaters of a large number of streams within the Credit River and Grand River watersheds (Russell et al. 2013).

The regional topography in the area of the Site is characterized as rolling to hummocky with localized hills and valleys and ranges from approximately 310 to 330 m above mean sea level (AMSL) (MNRF NRVIS, 2015).

3.1.2 Drainage and Hydrology

The regional area is near the Irish Creek which is in the Grand River watershed (WESA, 2005). The Grand River watershed is ultimately part of the Lake Erie drainage basin. The Grand River is located approximately 5 km west of the Site. The Site is within an area of low runoff potential as shown on Figure 3.2. Shown on Figures 3.2 and 3.3 is the location of Irish Creek which is about 300 m southeast of the southern part of the Property and about 600 southwest of the Site operations.

3.1.3 Surficial Geology

The regional surficial geology is dominated by extensive ice-contact stratified deposits, surrounded by silty to sandy till, organic and gravel deposits as shown on Figure 3.4. The overburden deposits are regionally approximately 40 m in thickness (Miller, 1979).

The ice-contact stratified deposits consist of a mixture of sand, gravel, silt, sandy silt, and some clay/silt layers/seams. Beneath the ice-contact stratified deposits there might be fine-grained

deposits, which are classified regionally as various drifts and tills which in turn are overlain by sand and gravel on top of the bedrock in places (Bajc and Shirota, 2007).

3.1.4 Bedrock Geology

Regionally bedrock is at an elevation of approximately 285 to 295 m AMSL, or approximately 40 m below ground surface (bgs) (Miller et al. 1979) (Karrow, 1987). The bedrock is the Guelph Formation.as shown on Figure 3.5.

The Guelph Formation is an Upper Silurian-aged, massive and thick-bedded brown and grey limestone/dolostone and trends to the northwest and has a gentle dip to the southwest (Armstrong and Dodge, 2007).

3.1.5 Physical Hydrogeology

The physical hydrogeology in the area is defined by two or three hydrostratigraphic units in descending stratigraphic order.

An upper water bearing unit/unconfined aquifer/ water table aquifer composed primarily of ice-contact stratified sand, gravel, silt and silty sand deposits. This aquifer is not significant in terms of water supply due to low yields. This water table unit is found at depths between 6 and 11 m bgs.

A deeper permeable sand and gravel aquifer under confined conditions might be present in some areas and it would be separated from the unconfined water table unit by aquitard (s) comprised of silt and clay deposits. This deeper aquifer is a more significant source of water supply and some of the nearby domestic private wells might use this aquifer for water supply.

A bedrock aquifer underlies the overburden. The bedrock aquifer is comprised of the Guelph Formation and has a relatively high permeability and generally good groundwater yielding capacity. The top of the bedrock surface is at an elevation of approximately 285 to 295 m AMSL.

The Guelph Formation is a regional aquifer which is used by municipal wells in the City of Guelph and City of Cambridge for water supply.

3.1.6 Water Supply

Water use within the area is limited to private wells for domestic, agricultural, and industrial use. There is little urban development and no municipal wells within the immediate area to service home or businesses.

Most of the private wells are screened either in the deep overburden and more commonly in the bedrock.

The Property is located within a medium intrinsic vulnerability area and within combined Zone D wellhead protection area (WHPA) from the Hespeler and Pinebush well fields in Cambridge as shown on Figure 3.6. These two well field obtain water supplies from the Guelph Formation.

3.2 Site Setting

The Site geology and hydrogeology were characterized based on the regional geologic and hydrogeologic framework (See Section 3.1 of this report) and Site-specific information collected

specifically for the purpose of the HIA and other available data (water well records for the two water supply wells within the Property).

The following data were evaluated to define the geologic and hydrogeologic conditions, and groundwater quality:

- Stratigraphic and hydrogeologic data from the three monitoring wells (MW1-20, MW2-20, and MW3-20) installed at the Site in November 2020.
- Stratigraphic and hydrogeologic data from MECP water well records for the two water supply wells within the Property (A and EXI).
- Site-specific hydraulic monitoring data collected in November and December 2020 from

  MW1-20, MW2-20, and MW3-20.
- Hydraulic monitoring data (static water level data) collected from supply wells A and EXI at the time of their installation.
- Site-specific groundwater quality data collected in November and December 2020 from

  MW1-20, MW-2-20, and MW3-20.
- Site-specific groundwater quality collected from water supply wells A and EXI in July and August 2020.
- Surface water quality from the storm water management pond collected in October and November 2020.
- Site-specific hydraulic conductivity data collected from MW1-20, MW2-20, and MW3-20 in December 2020.

The monitoring well completion details are summarized in Table 3.1.

3.2.1 Site Hydrologic Setting

Drainage of precipitation from the Site is primarily via infiltration into the groundwater flow system with little surface water runoff. Due to the prevalence of sand and gravel deposits in the shallow overburden and a depth to groundwater of 6 to 11 m or greater, precipitation infiltrates the ground relatively easily.

A storm water management is located within the west-central part of the Property and west of the Site operations.

A natural pond is located to the north of the Site and is not related to operations.

There are no major surface water features or drainage pathways on Site of provincial significance.

3.2.2 Site Geologic Setting

The geologic framework within the Site was characterized through the evaluation of stratigraphic data from borehole logs and monitoring well data generated specifically for the purpose of the HIA (MW1-20. MW2-20, and MW3-20). The stratigraphic and instrumentation logs are provided in Appendix B. Other available data (MECP water well records for the two on Site water supply wells A and EXI) were also used in the geologic characterization and are provided in Appendix A.

The borehole/monitoring well stratigraphic data for these three monitoring wells and the stratigraphic data from the two existing water supply well within the Property were used to prepare three geologic/hydrogeologic cross-sections A-A' (north-south - along the western site of the operations), B-B' (north south - along the east side of the operations) and C-C' (across the middle of the operations) .

The locations of the geologic cross-sections are shown on Figure 3.7. The Site geologic cross-sections are shown on Figures 3.8 to 3.10.

Ice-Contact Stratified Deposits

As shown on Figures 3.8 to 3.10, the Site is underlain by heterogenous ice- contact stratified deposits identified on a regional basis (see Figure 3.4). The Site is underlain by a mixture of sandy silt/silty sand, sand, silt, clay and sand and gravel deposits typical of ice contact settings from ground surface to the top of the bedrock.

The two water supply wells shown on Figure 3.8 (geologic/hydrogeologic cross-section A-A'), show extremely variable lithologies. The northern water supply well shows coarse-grained deposits (sand and gravel) from ground surface elevation of 322 m AMSL to an elevation of 287 m AMSL). The southern supply well on the other hand shows impermeable deposits (clay) from ground surface (elevation of 320 m AMSL) to bedrock (elevation of 295 m AMSL).The other two geologic/hydrogeologic cross-sections shown on Figures 3.9 and 3.10 (geologic cross-sections B-B and C-C') show similar patterns of lithologic heterogeneity.

However, generally the northern portion of the Site is primarily comprised of more impermeable fine-grained deposits than the central portion the Site where coarser grained deposits are found.

Bedrock

Bedrock underlying the various overburden deposits was penetrated by one of the water supply wells at an elevation of 295 m AMSL. Regionally bedrock is comprised of bedded limestone/dolostone of the Guelph Formation. The top of the bedrock at the Site appears to slope to the south.

3.2.3 Site Hydrogeologic Setting

The Site hydrogeologic conditions were characterized based on the regional hydrogeology, local geologic conditions, described above, groundwater monitoring, and hydraulic conductivity testing.

Water Table (Upper Unconfined Aquifer)

The Ice-Contact Stratified Deposits described in Section 3.2.2 correspond to the water table unit (upper unconfined aquifer or first water-bearing zone).

This is the hydrostratigraphic unit relevant to this HIA as it contains the water table.

If groundwater impact was present beneath the Site within the groundwater flow system, if would be found in the water table unit because it is the shallowest groundwater regime.

Hydraulic Properties

The hydraulic conductivity of the ice-contact stratified deposits which comprise the water table unit is variable, as summarized in Table 3.3. The hydraulic conductivity ranges between 2.4 x 10^{-5} to 9.1 x 10^{-3} centimetres per second (cm/s) based on slug test data collected on December 1, 2020 from the three monitoring wells. The hydraulic conductivity plots are provided in Appendix C. The geometric mean hydraulic conductivity is 5.8 x 10^{-4} cm/sec.

Groundwater Flow Patterns

Groundwater elevation contours were prepared for the water table unit using hydraulic monitoring data collected on November 23, 2020 (see Table 3.2). The groundwater contours are shown on Figure 3.11.

As shown on Figure 3.11, groundwater flow generally follows the topography. Groundwater flows to the south-southwest from MW3-20 to MW1-20 and MW2-20. The water table elevation ranges from approximately 317 m AMSL to 311 m AMSL and the average horizontal hydraulic gradient is 0.02.

Based on the groundwater contours shown on Figure 3.11, water supply wells A and EXI are downgradient of the Site operations.

The vertical hydraulic gradient from the water table unit to the deeper overburden water-bearing zone or bedrock is 0.2 downwards based on the groundwater elevation at MW1-20 of 311.5 m AMSL and a groundwater elevation of 306 m AMSL at water supply well EXI adjacent to it.

Groundwater Flow Velocity

Based on an average hydraulic conductivity of 5.8 x 10^{-4} cm/sec, an average horizontal hydraulic gradient of 0.02 and an assumed porosity of 30 percent (0.3) the average horizontal groundwater flow velocity across the Site would be 0.03 m/day (11 m/year).

The vertical groundwater flow velocity would be 0.03 m/day (11 m/year) based on a vertical hydraulic conductivity of 5.8 x 10^{-5} cm/sec (one order of magnitude lower than the horizontal hydraulic conductivity), a vertical hydraulic gradient of 0.2, and a porosity of 0.3.

The horizontal and vertical groundwater flow velocities are both the same due to the offset in hydraulic conductivity and hydraulic gradients differences, both groundwater flow velocities are slow allowing for attenuation of chemical constituents, if they were present.

Summary

In summary, the Site is underlain by ice-contact stratified deposits which extend from ground surface to the top of the bedrock. The ice contact-stratified deposits are highly heterogeneous but are generally finer-grained in the north than the south.

The shallowest groundwater flow regime, referred in this report as the water table unit is found at depths between 6 and 11 m.

Groundwater flows horizontally to the south-southwest with an average horizontal hydraulic gradient of 0.02 and a groundwater flow velocity of about 0.03 m/day.

Groundwater flows vertically downwards from the water table unit to the deeper water-bearing overburden unit and bedrock with an average vertical hydraulic gradient of 0.2 and a vertical groundwater flow velocity of 0.03 m/day.

4. Impact Assessment

This section provides an impact assessment based on the groundwater and surface water quality collected at the Site.

Private Water Well Use

A review of the private water wells in the area as documented in a letter from GHD to the Applicant, dated September 18, 2020 and contained in Appendix D of this report, identified a few supply wells in the vicinity of the Site. These wells are shown on Figure 4.1. Most of the wells are deeper than 20 m and obtain water from the bedrock and a few from the deep overburden aquifer.

As noted in Section 2.2, the two Site supply water wells (A and EXI water supply) would be the first wells to be impacted if operations at the Site were to cause a negative impact to nearby groundwater quality.

Municipal Well Fields

As discussed in Section 3.1.6 of this report, the Property is located within a medium intrinsic vulnerability area. The Site is located approximately 4.7 km and 3.8 km northeast of the City of Cambridge Pinebush and Hespeler well fields, respectively, and is located within the combined Zone D wellhead protection area (WHPA) from these two well fields.

Groundwater Quality - Water Table Unit

Groundwater samples from monitoring wells MW1-20, MW2-20, and MW3-20 were collected on two occasions, on November 24/25, 2020 and December 4, 2020 from the three monitoring wells and analyzed for general chemistry, total and dissolved metals, VOCs, SVOCs/PAHs, THP (F1 to F4) and oil and grease. The groundwater samples were collected to assess whether the water table unit had been impacted by Site operations. The water table unit groundwater quality is summarized in Table 4.1 and the laboratory reports are provided in Appendix E.

General Chemistry/Total Metals/Dissolved Metals

Groundwater in monitoring wells MW1-20, MW2-20, and MW3-20 reflects the geochemical make-up of the ice-contact stratified deposits which make up the media of the water table unit. Total and dissolved metals are generally low and below Ontario drinking water quality standards.

VOCs

No VOCs were detected in MW1-20, MW2-20, or MW3-20 above the RLs.

SVOCs/PAHs

SVOCs/PAHs were generally not detected above the RLs. A few SVOCs/PAHs were sporadically detected above the RLs at levels less than 1 ug/L. These were: diethylphthalate, fluoranthene,

fluorene, 1+2-methylnaphthalenes, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, phenanthrene, phenol, pyrene. All these compounds were below the Ontario drinking water quality standards.

TPH/Oil and Grease

TPH and oil and grease were not detected above the RLs in any of the groundwater samples from MW1-20, MW2-20, or MW3-20.

Therefore, none of the Ontario drinking water quality standards were exceeded in the groundwater samples from the water table unit.

Groundwater Quality - Water Supply Wells EXI and A

There are other water supply wells around the Site which are used for domestic or agricultural purpose since this area is not serviced by municipal water. The supply wells are either within the deep overburden or bedrock.

Groundwater samples from the EXI and A supply wells have been collected on three occasions (two in July and one in August 2020). The groundwater samples were analyzed for a comprehensive suite of analytes which included total metals, polychlorinated biphenyls (PCBs), VOCs, TPH including the F1 to F4 fraction, semi-volatiles/ polycyclic aromatic hydrocarbons/base neutral extractables (SVOCs/PAHs/BNAS).

The groundwater quality data for supply wells EXI and A are summarized in Tables 4.2 and 4.3 and the laboratory reports are provided in Appendix E.

The groundwater quality results from both supply wells show that the water is reflective of the natural geochemistry of the deep overburden and bedrock aquifers. No VOCs, TPH, PCBs, SVOCs/PAHs/BNAs were detected above the laboratory reporting limits (RLs). The laboratory RLs were set at levels lower than the Ontario drinking water quality standards.

Therefore, no Ontario drinking water quality standards were exceeded in the Site water supply wells.

Surface Water Quality

Several surface waters samples have been collected between October and November 2020 from the storm management pond located to the northwest of the Site operations. The surface water samples were analyzed for metals, VOCs, TPH (F1 to F4), and SVOCs/PAHs/BNAs.

The surface water quality is summarized in Table 4.4 and the laboratory reports are provided in Appendix E.

None of the surface water samples had VOCs, TPH (F1 to F4), or SVOCs/PAHs/BNAs detections above the laboratory RLs. The laboratory set the RLs at concentrations lower that the provincial water quality objectives (PWQOs).

No PWQOs were exceeded by surface water in the storm water management pond.

The historical data collected at the Site and the data collected as part of the HIA clearly show that the operations at the Site are not impaction either shallow or deep groundwater.

5. Proposed Monitoring Program

Groundwater quality in the water table unit and deeper overburden and bedrock aquifers reflects the natural geochemistry of the aquifer media.

Groundwater or surface water have not been impacted by Site operations. Only low levels (less than 1 ug/L) of a small number of SVOCs/PAHs were detected in the water table unit. These levels are below the Ontario drinking water quality standards.

However, the Site is located within combined Zone D of the Hespeler and Pinebush well fields which operate in the City of Cambridge.

Therefore, it is proposed that potential future impacts to groundwater be monitored by the following:

- Groundwater sampling of MW1-20, MW2-20, and MW3-20, and two on-Site supply wells be monitored once per year for SVOCs/PAHs only.
- Surface water sampling of the operations pond be monitored once per year for SVOCs/PAHs only.
- Groundwater levels be monitored in MW1-20, MW2-20, and MW3-20 four times per year.

The monitoring network is shown on Figure 5.1.

It is also proposed that a monitoring program report be prepared every 5 years and provided to MECP.

6. Summary and Recommendations

1. The geologic and hydrogeologic conditions have been characterized and the potential for impacts from Site operations to groundwater has been assessed.
2. There are no anticipated impacts to groundwater resources from the Site operations to shallow groundwater or deeper groundwater supplies.
3. A monitoring program has been created to identify any future unanticipated impacts, because the Site is located within combined Zone D of the Hespeler and Pinebush well fields.

7. References

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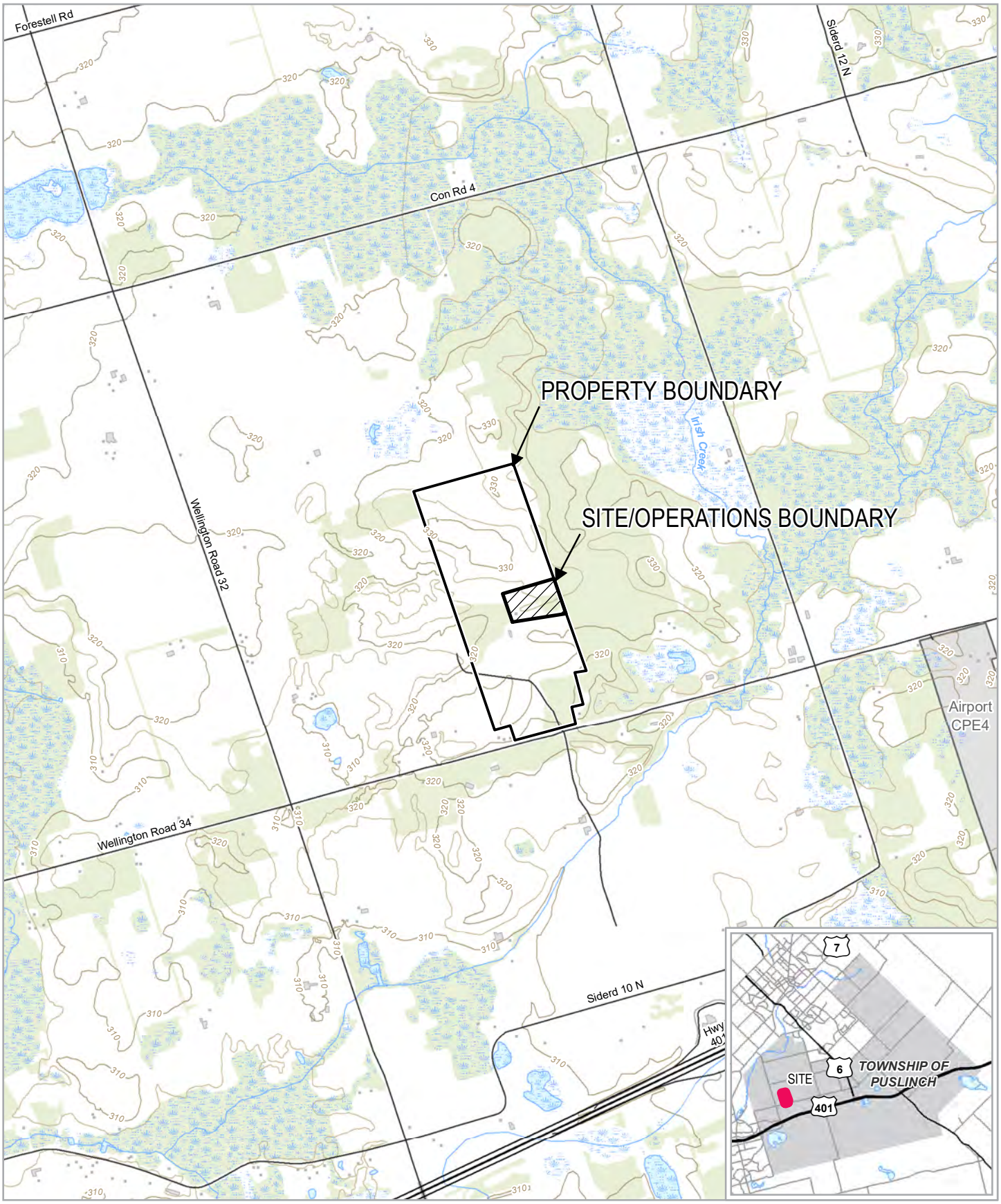
All of Which is Respectfully Submitted,

GHD

Prepared By:

[redacted]

Gary I. Lagos, M.Sc., P. Geo



Paper Size ANSI A

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Meters

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Horizontal Datum: North American 1983 CSRS
Grid: NAD 1983 CSRS UTM Zone 17N

N

GHD

2374868 ONTARIO INC.
6678 WELLINGTON RD 34
WELLINGTON COUNTY, ON

Project No. **11210029**
Revision No. **-**
Date **Dec 11, 2020**

SITE LOCATION

FIGURE 1.1

Data source: WWIS, 2020. Ontario Ministry of the Environment (Accessed August, 2020); Imagery Google 2020. Capture date: 7/Jul/2018

0 30 60 90m

N

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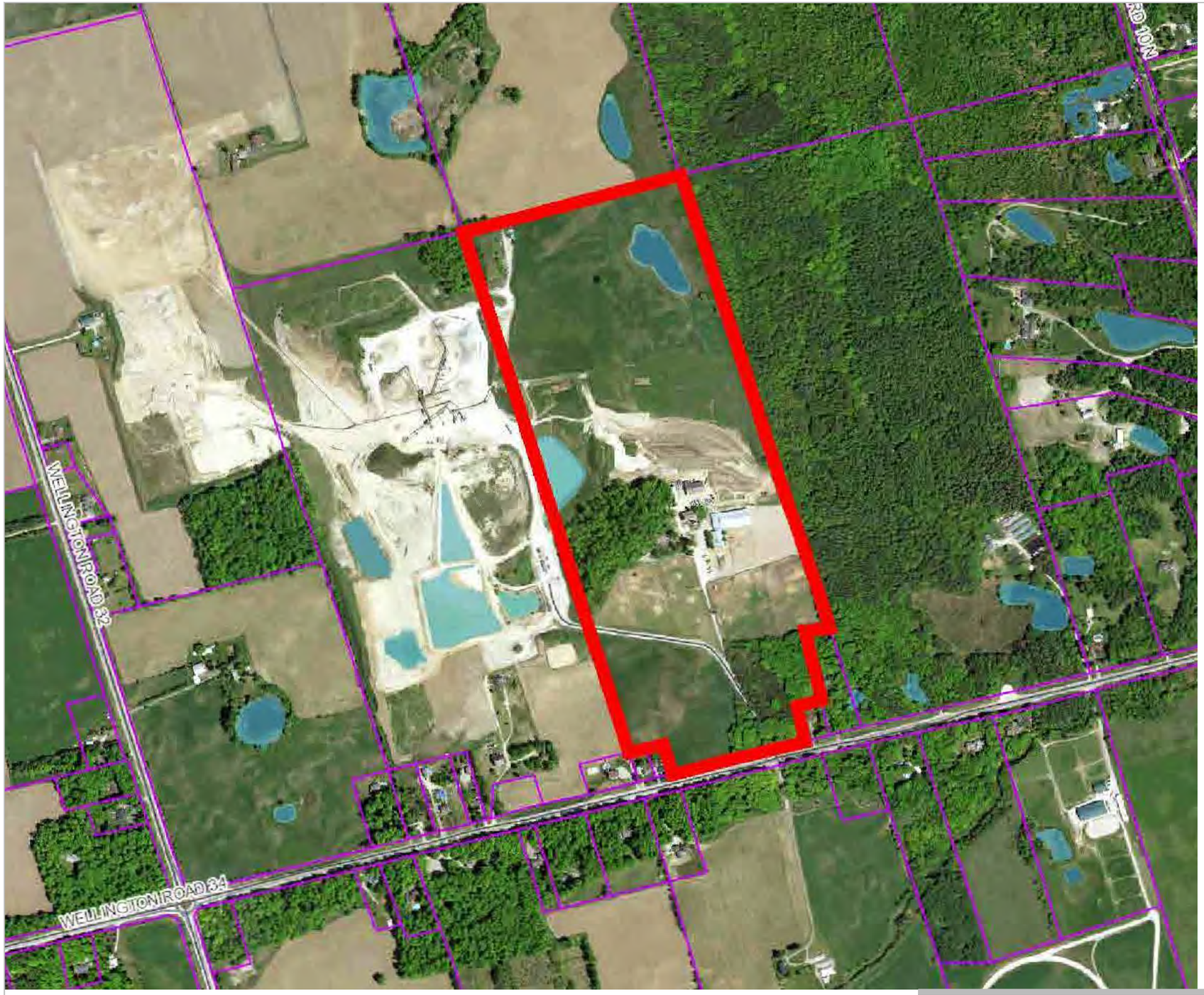
2374868 ONTARIO INC.
6678 WELLINGTON ROAD 34
WELLINGTON COUNTY, ONTARIO

Project No. 11210029
Date December 2020

SITE FEATURES

FIGURE 1.2



LEGEND

- Regulation Limit (GRCA)
- Regulation Watercourse (GRCA)
- Regulation Waterbody (GRCA)
- Wetland (GRCA)

Floodplain (GRCA)

- Engineered
- Estimated
- Approximate
- Special Policy Area

Slope Valley (GRCA)

- Steep
- Oversteep
- Steep

Slope Erosion (GRCA)

- Oversteep
- Toe

- Lake Erie Flood (GRCA)
- Lake Erie Shoreline Reach (GRCA)
- Lake Erie Dynamic Beach (GRCA)
- Lake Erie Erosion (GRCA)
- Parcel - Assessment (MPAC/MNRP)

0 75 150 225m

N

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BADGER DAYLIGHTING AND HYDROVAC SERVICES
6678 WELLINGTON ROAD 34,
WELLINGTON COUNTY, ONTARIO

Project No. **11210029**
Date **April 2020**

SITE AERIAL PHOTO

FIGURE 1.3

Filename: N:\CA\Waterloo\Projects\662\11210029\Digital_Design\ACAD 2018\Figures\11210029(ERTL001)GN-WA001.dwg
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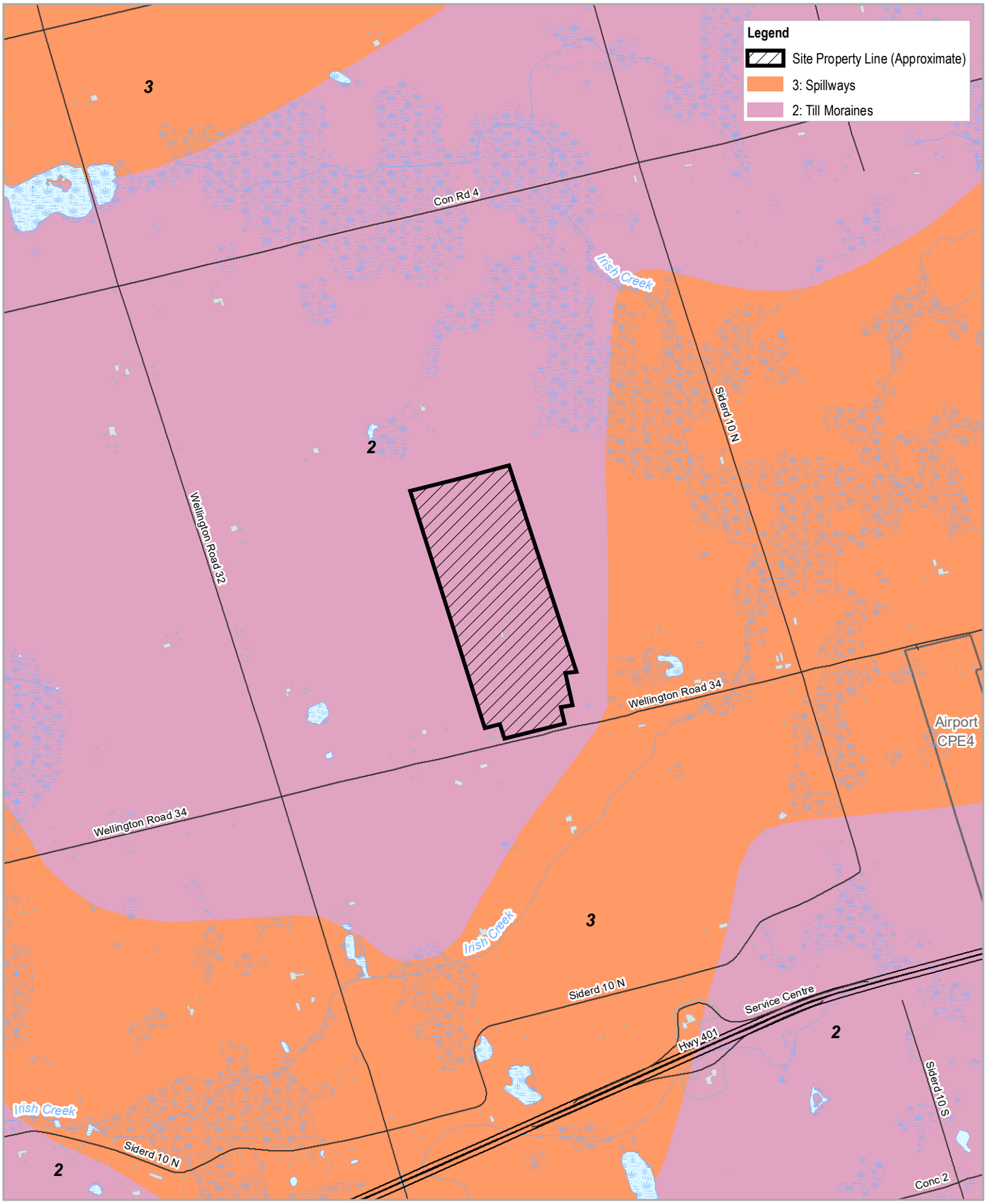
Data Source: Grand River Conservation Authority, Date: Jan 23, 2020.



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Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

N

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2374868 ONTARIO INC.
6678 WELLINGTON RD 34
WELLINGTON COUNTY, ON

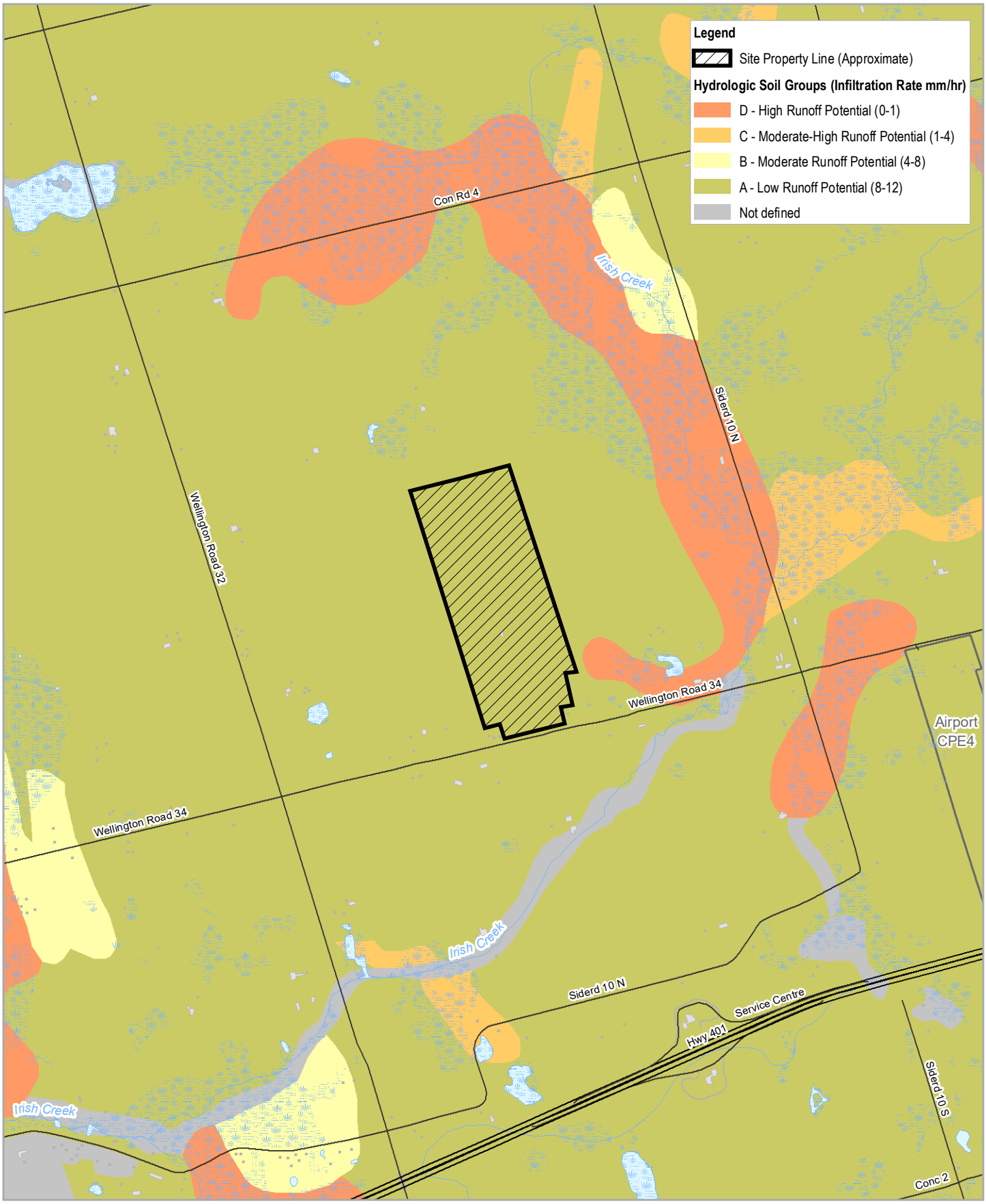
Project No. **11210029**
Revision No. **-**
Date **Dec 9, 2020**

REGIONAL PHYSIOGRAPHY

FIGURE 3.1

O:\GIS\PROJECTS\11210000s\11210029\Layouts\202012_HydroGeoStudy\11210029_202012_HydroGeoStudy_GIS001.mxd
Print date: 09 Dec 2020 - 13:53

Data source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2020; Chapman, L.J. and Putnam, D.F. 2007. Physiography of southern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 228.



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Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

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6678 WELLINGTON RD 34
WELLINGTON COUNTY, ON

Project No. **11210029**
Revision No. **-**
Date **Dec 9, 2020**

HYDROLOGIC SUBCATCHMENTS

FIGURE 3.2

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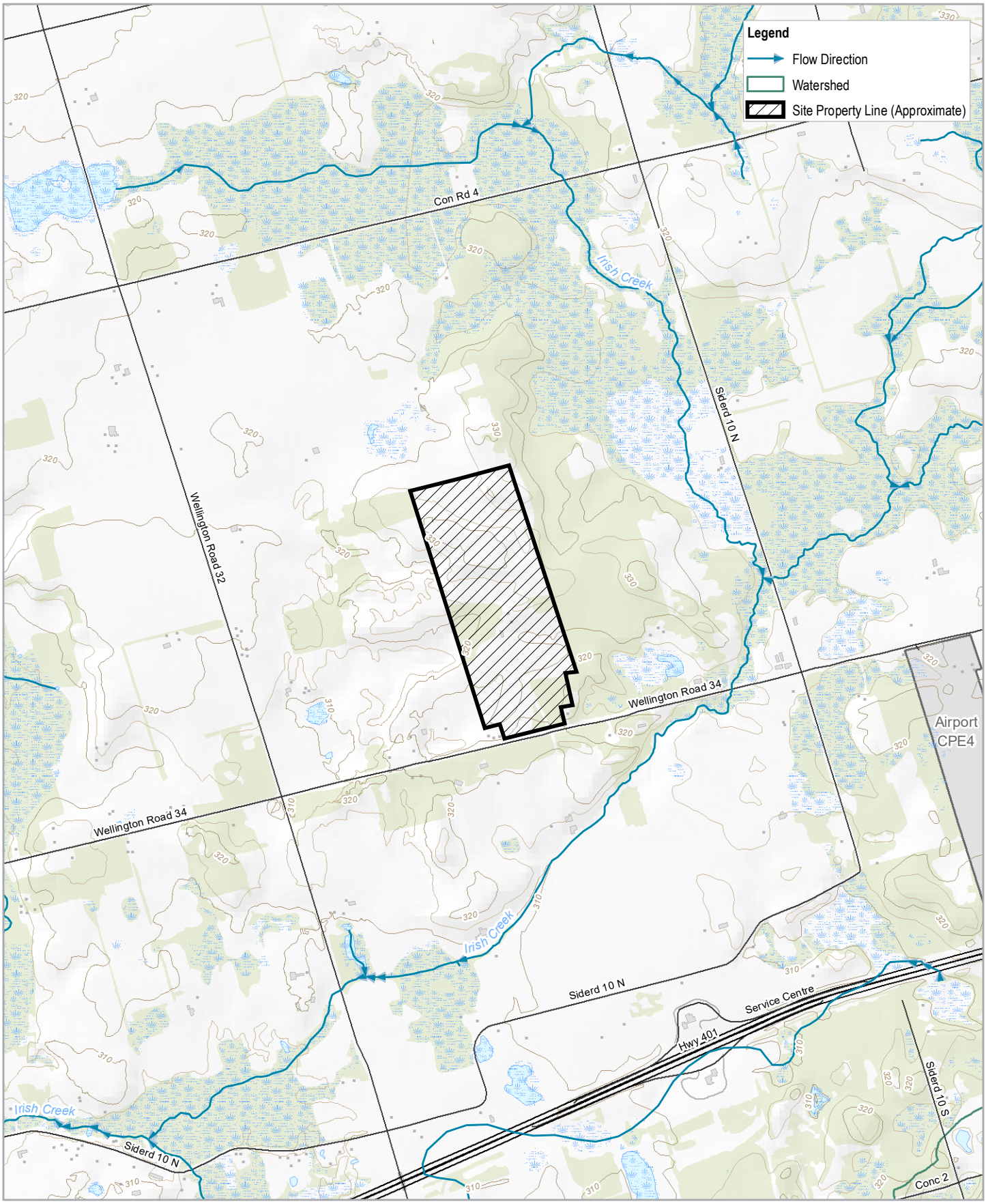
Data source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2020.



Paper Size ANSI A

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Meters

Map Projection: Transverse Mercator
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Grid: NAD 1983 UTM Zone 17N

N

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2374868 ONTARIO INC.
6678 WELLINGTON RD 34
CAMBRIDGE, ON

Project No. **11210029**
Revision No. **-**
Date **Dec 9, 2020**

SURFACE WATER FEATURES

FIGURE 3.3

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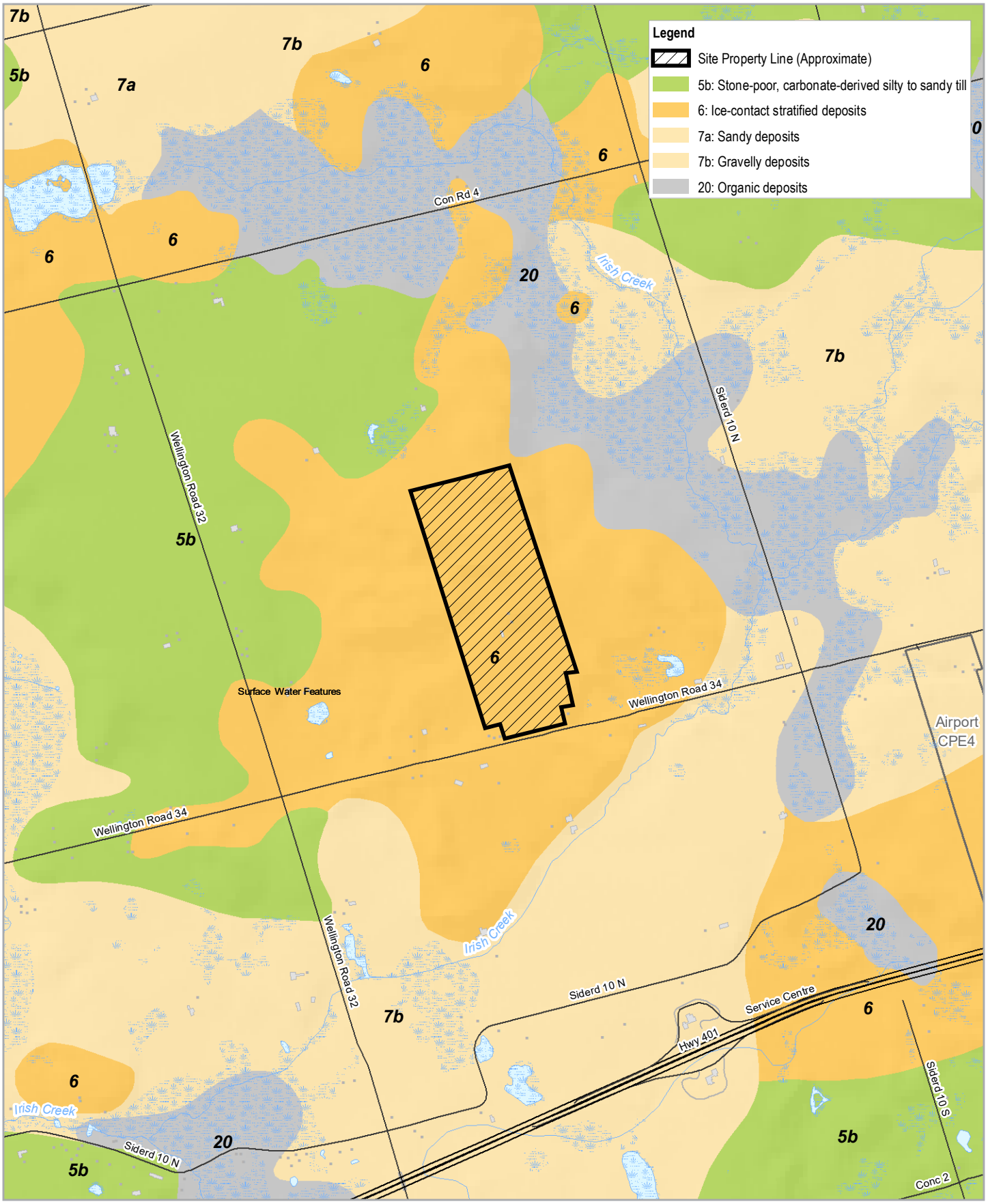
Source: MNRF NRVIS, 2017. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2020.



Paper Size ANSI A

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Meters

Map Projection: Transverse Mercator
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Grid: NAD 1983 UTM Zone 17N

N

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2374868 ONTARIO INC.
6678 WELLINGTON RD 34
WELLINGTON COUNTY, ON

Project No. **11210029**
Revision No. **-**
Date **Dec 9, 2020**

REGIONAL SURFICIAL GEOLOGY

FIGURE 3.4

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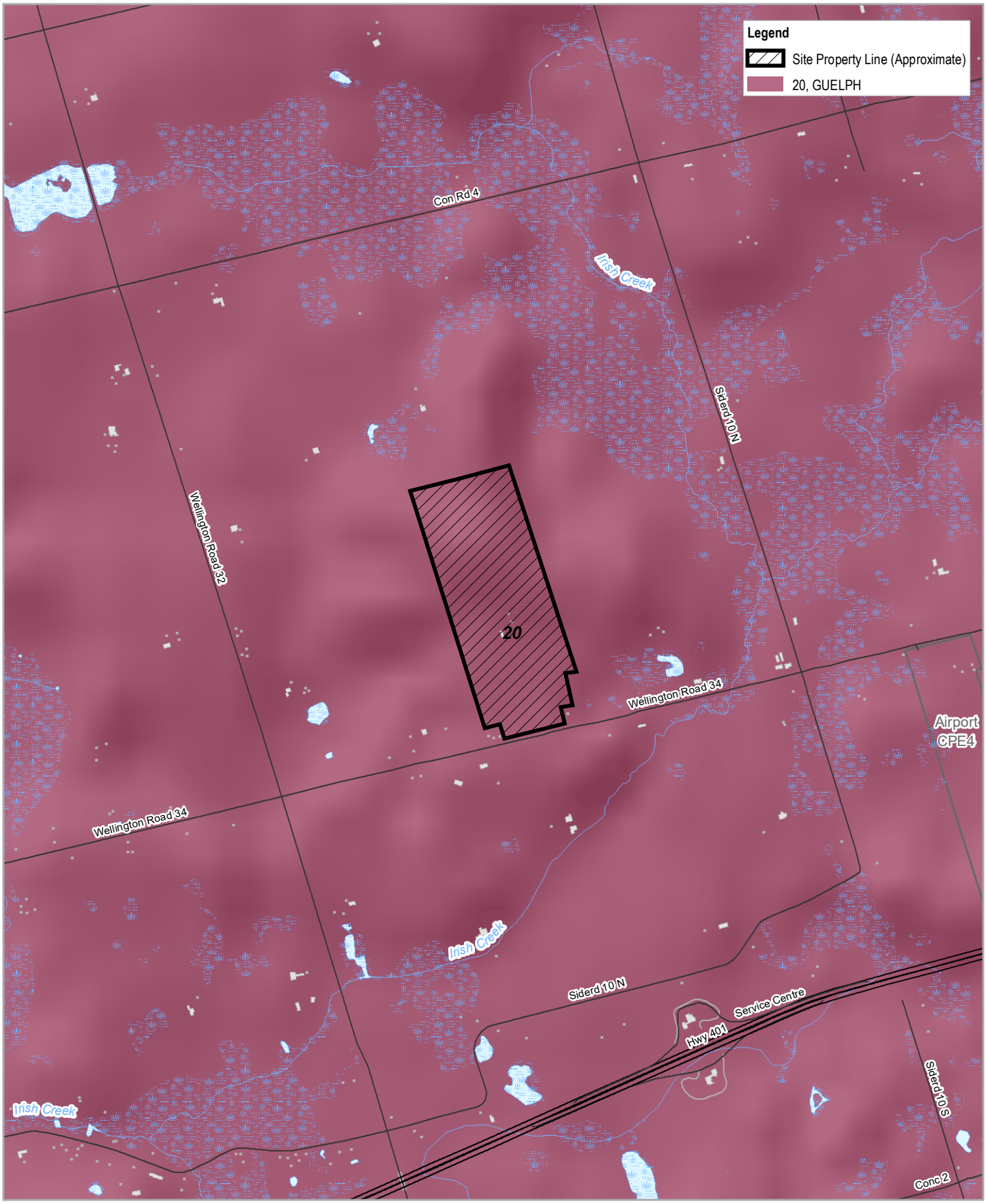
Data source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2020; Ontario Geological Survey 2003. Surficial geology of southern Ontario; Ontario Geological Survey, Miscellaneous Release---Data 128.



Paper Size ANSI A

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Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

N

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6678 WELLINGTON RD 34
WELLINGTON COUNTY, ON

Project No. **11210029**
Revision No. **-**
Date **Dec 9, 2020**

PALEOZOIC GEOLOGY

FIGURE 3.5

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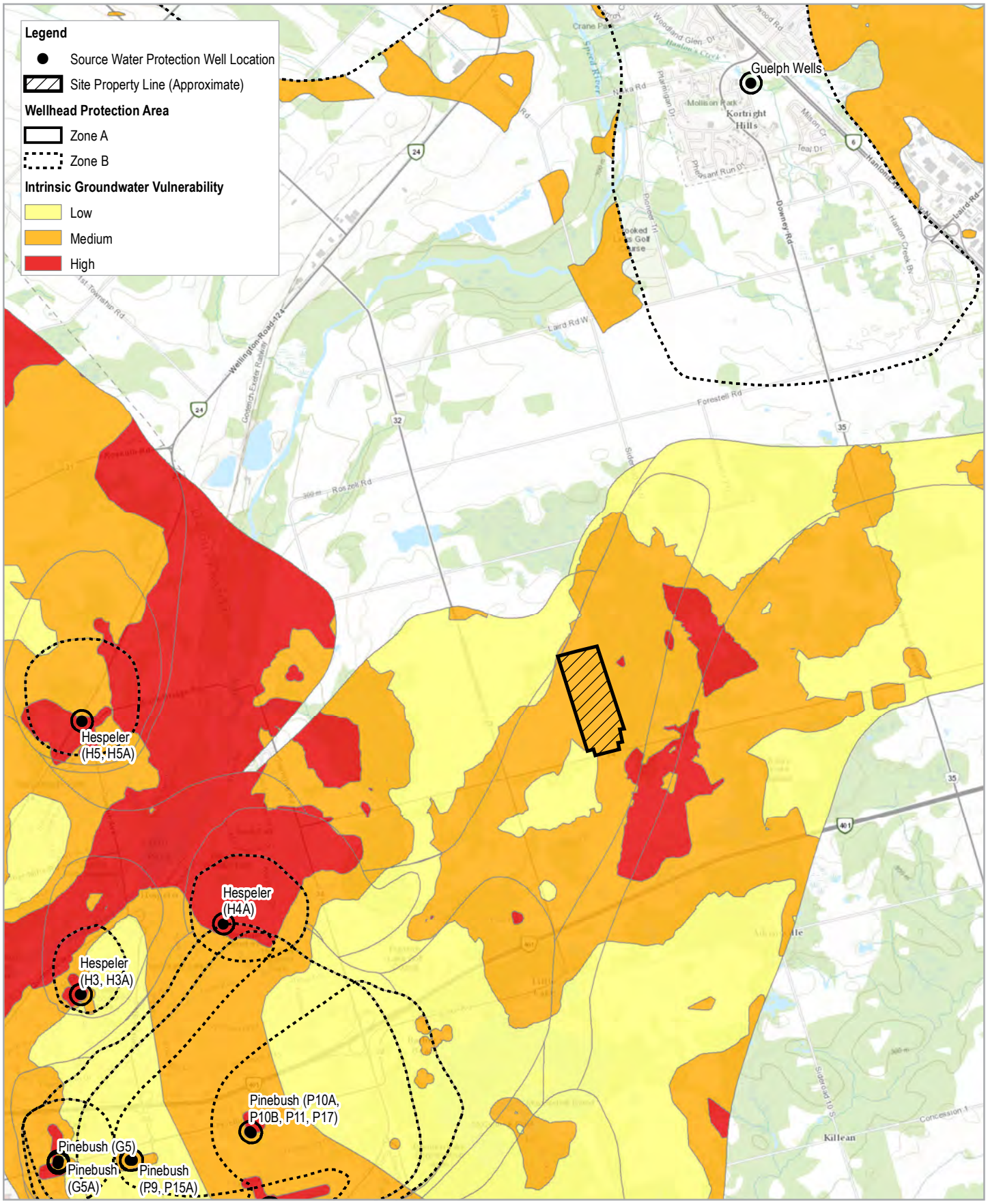
Print date: 09 Dec 2020 - 13:54

Source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2020;
Armstrong, D.K. and Dodge, J.E.P. 2007. Paleozoic geology of southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 219. ISBN 978-1-4249-4526-9.



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Grid: NAD 1983 UTM Zone 17N

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WELLINGTON COUNTY, ON

WELLHEAD PROTECTION AREAS (WHPAS)

Project No. **11210029**
Revision No. **-**
Date **Dec 8, 2020**

FIGURE 3.6

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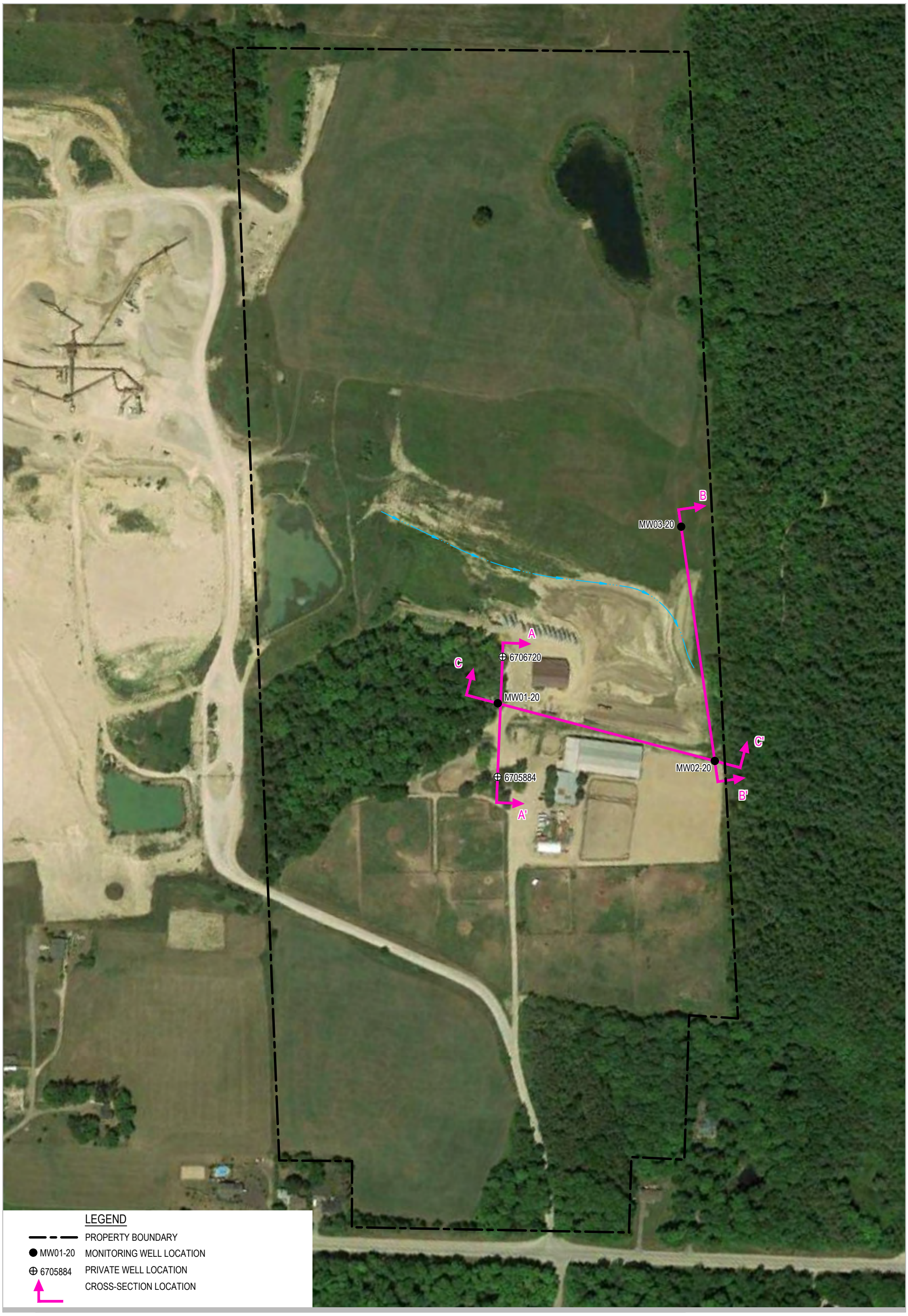

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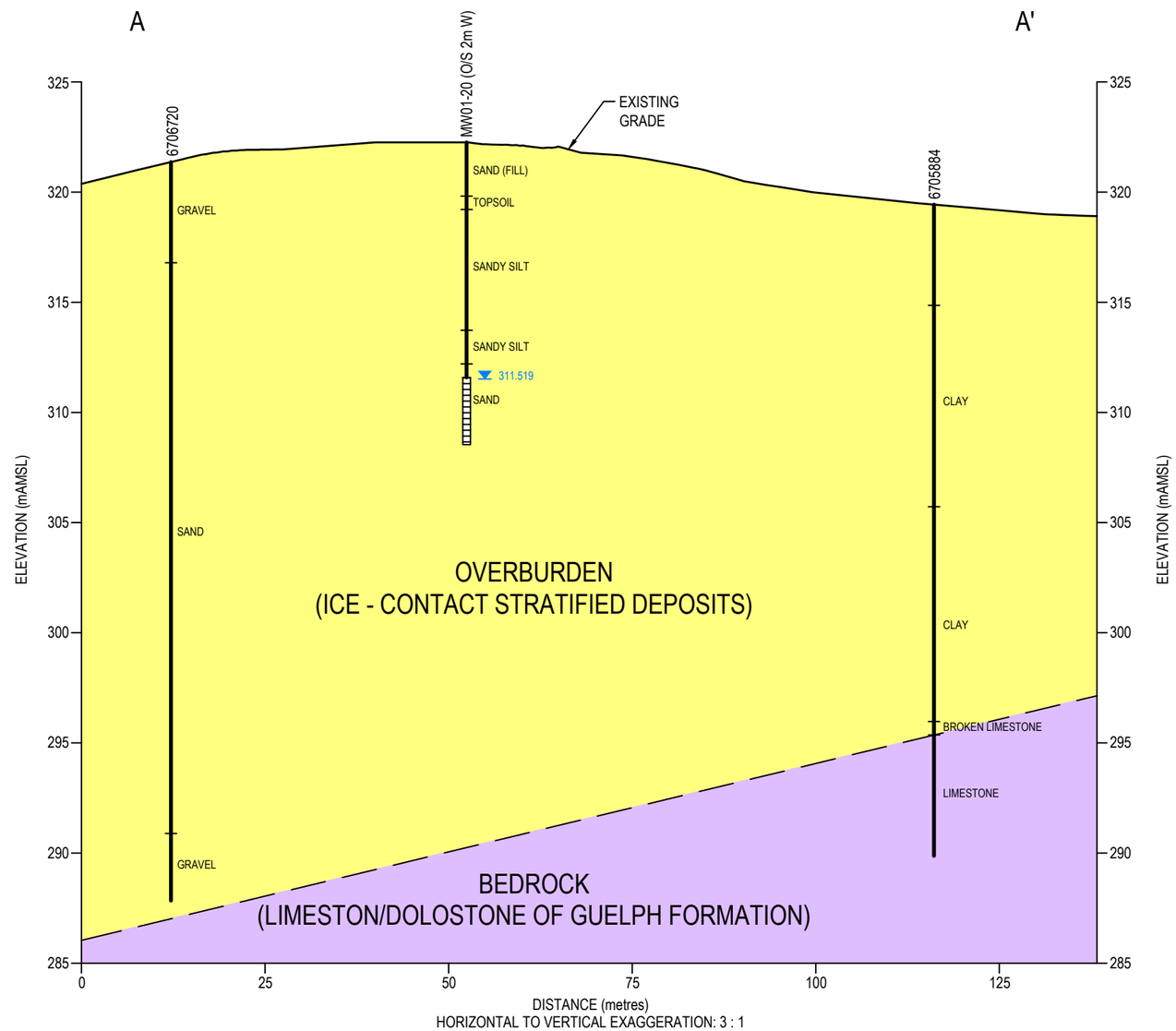
N

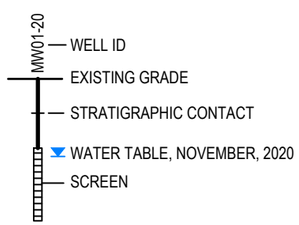
2374868 ONTARIO INC.
6678 WELLINGTON ROAD 34
WELLINGTON COUNTY, ONTARIO

Project No. 11210029
Date December 2020

GEOLOGIC CR0SS-SECTION LOCATIONS

FIGURE 3.7





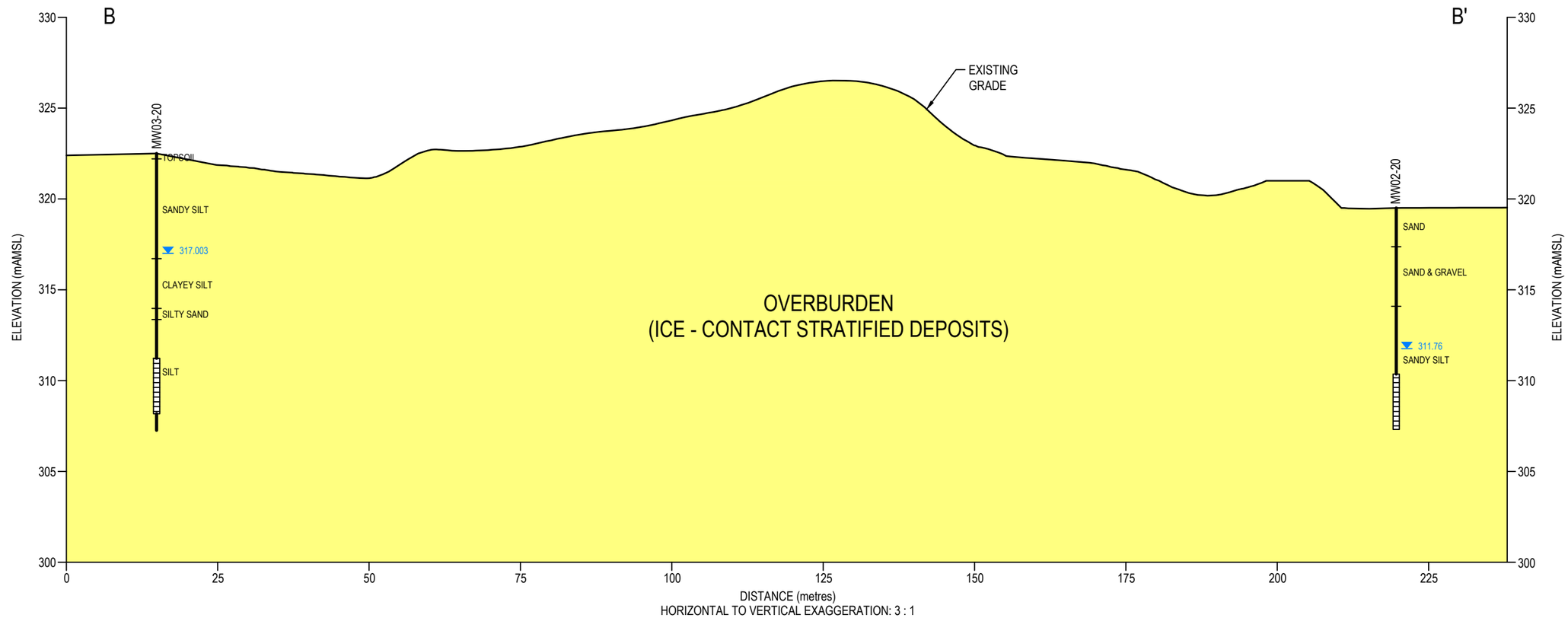
2374868 ONTARIO INC.
6678 WELLINGTON ROAD 34
WELLINGTON COUNTY, ONTARIO

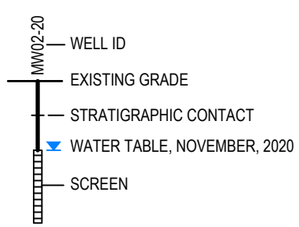
Project No. **11210029**
Date **December 2020**

GEOLOGIC CROSS-SECTION A-A'

FIGURE 3.8

Filename: N:\CA\Waterloo\Projects\662\11210029\Digital_Design\ACAD 2020\Figures\RPT005\11210029(005)GN-WA003.dwg
Plot Date: 11 December 2020 12:19 PM





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Project No. **11210029**
Date **December 2020**

GEOLOGIC CROSS-SECTION B-B'

FIGURE 3.9

Filename: N:\CA\Waterloo\Projects\662\11210029\Digital_Design\ACAD 2020\Figures\RPT005\11210029(005)GN-WA003.dwg
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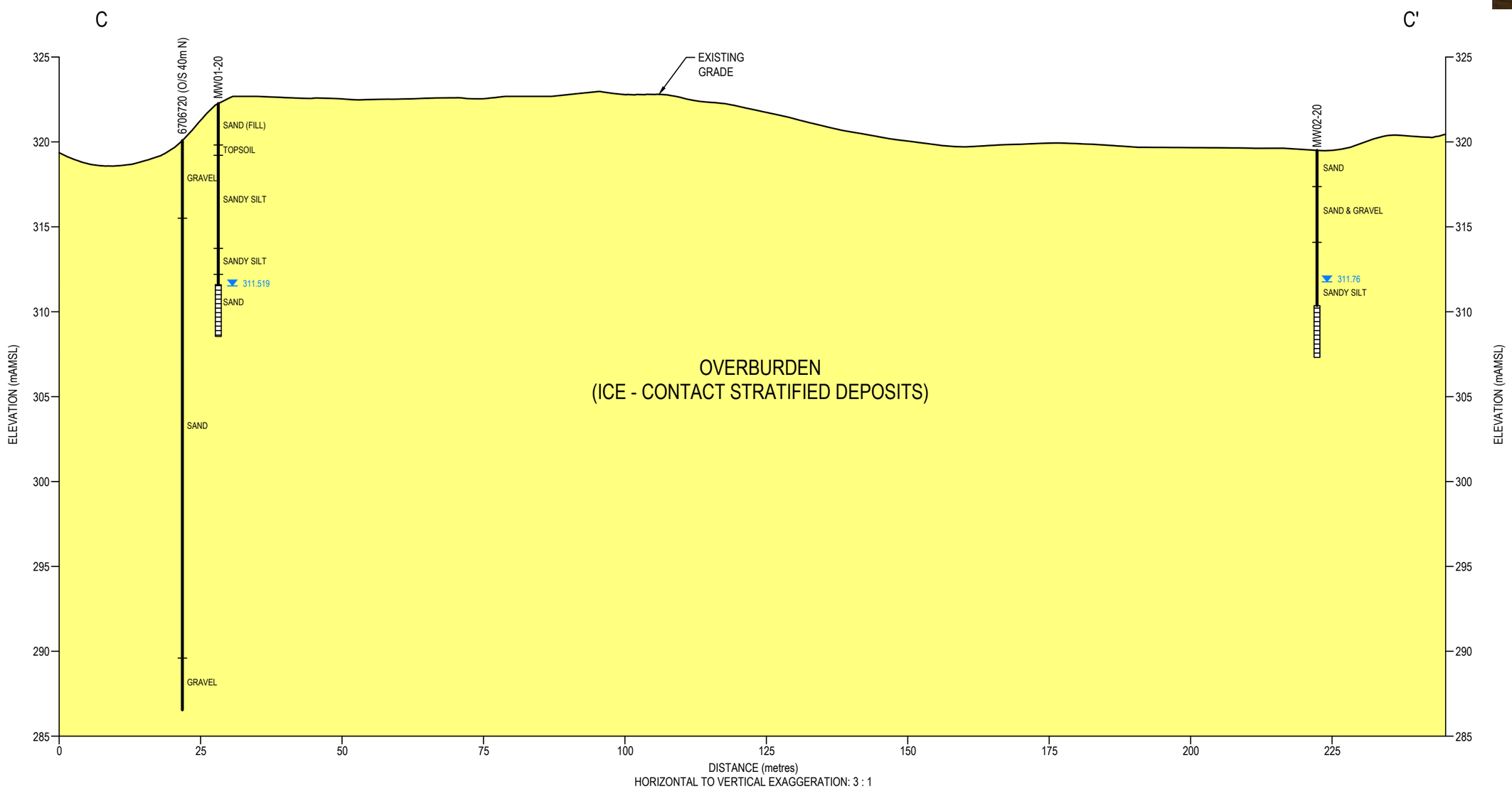

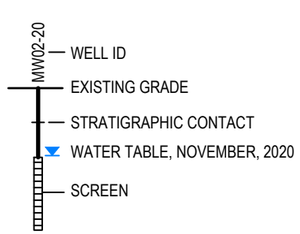

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Project No. **11210029**
Date **December 2020**

GEOLOGIC CROSS-SECTION C-C'

FIGURE 3.10

Filename: N:\CA\Waterloo\Projects\662\11210029\Digital_Design\ACAD 2020\Figures\RPT005\11210029(005)GN-WA003.dwg
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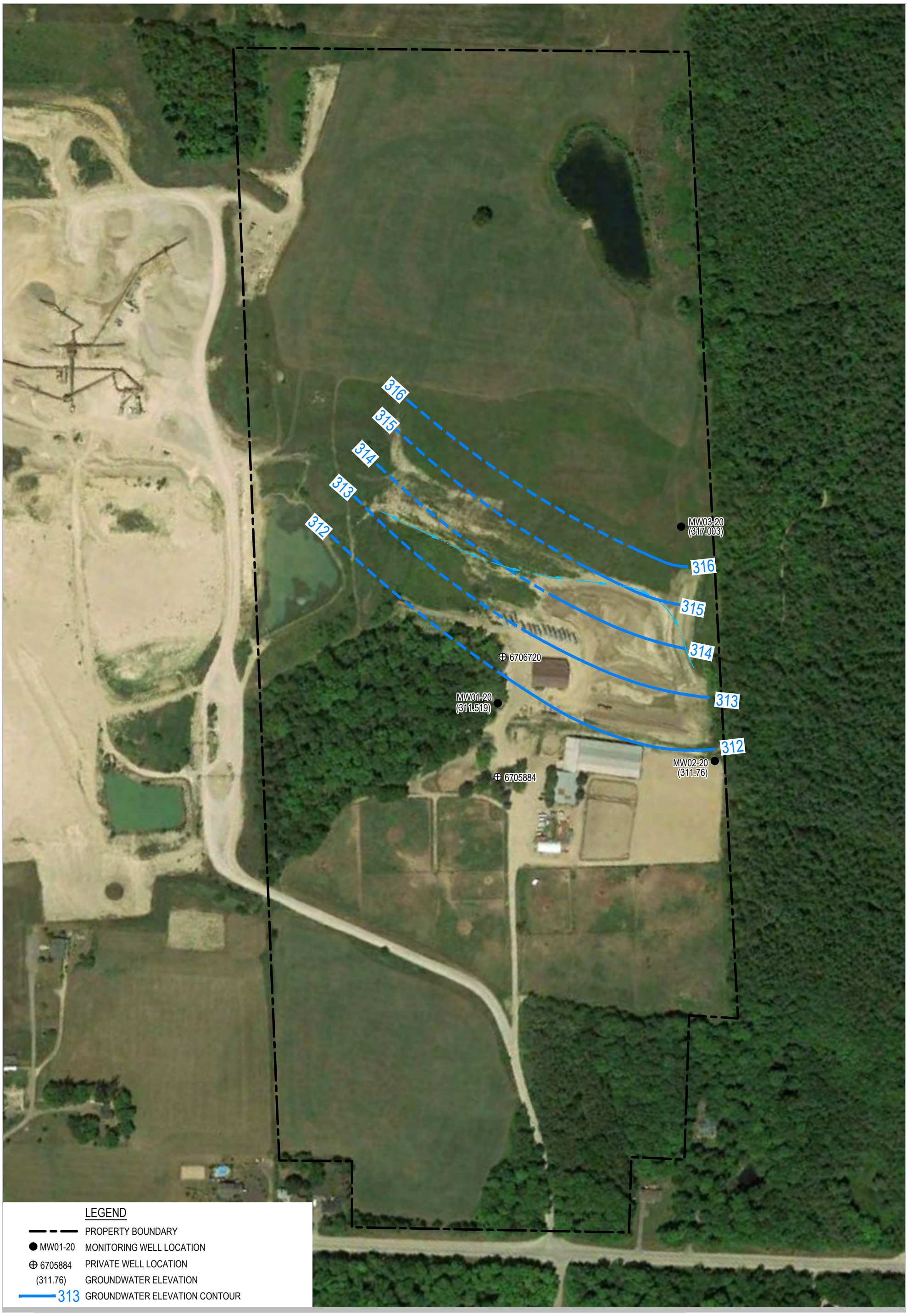

0 30 60 90m

N

GHD

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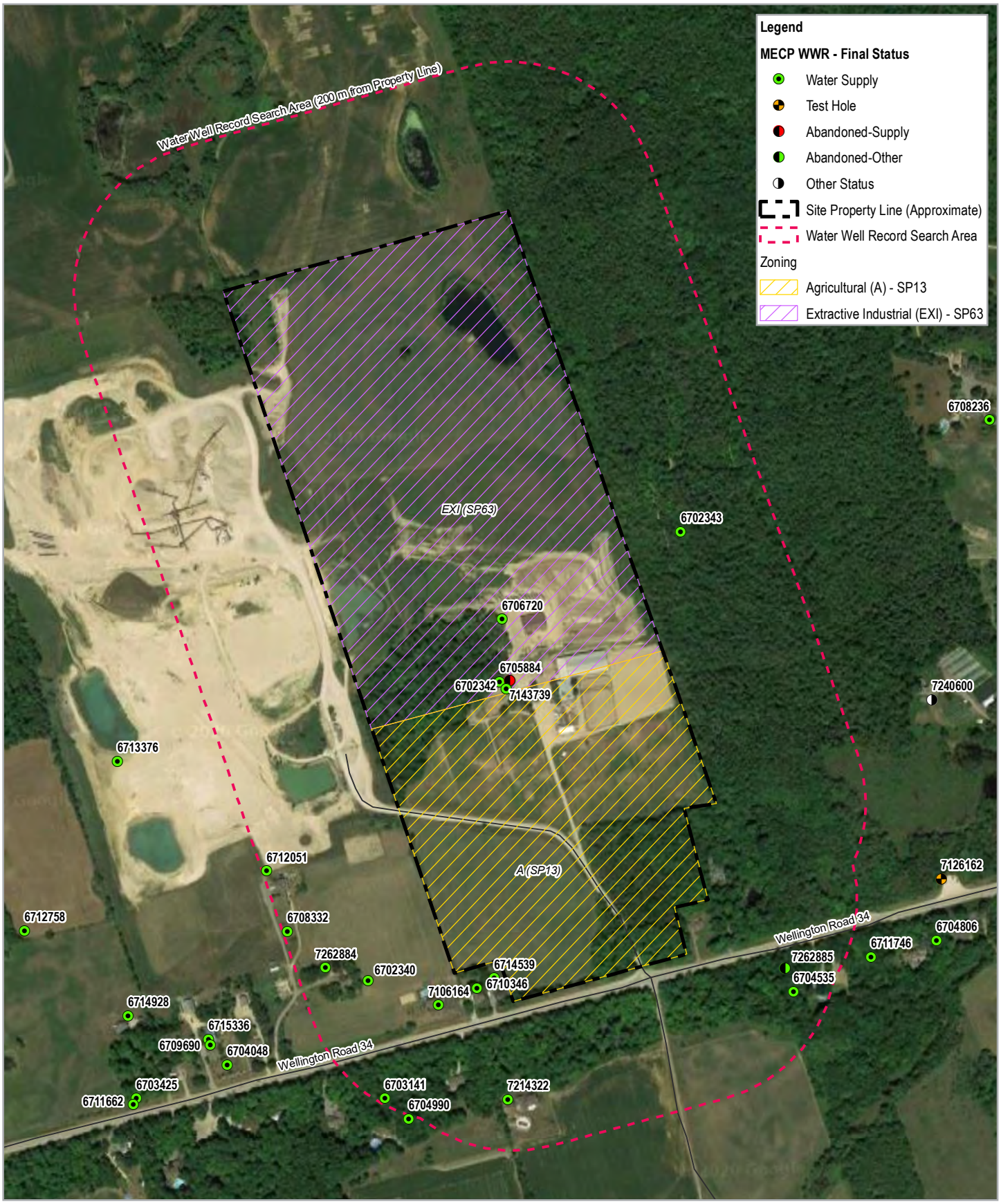
6678 WELLINGTON ROAD 34
WELLINGTON COUNTY, ONTARIO

Project No. 11210029
Date December 2020

GROUNDWATER CONTOURS

FIGURE 3.11



Paper Size ANSI A

0 50 100 150 200

Meters

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983 CSRS
Grid: NAD 1983 CSRS UTM Zone 17N

N

GHD

2374868 ONTARIO INC.
6678 WELLINGTON ROAD 34
WELLINGTON COUNTY, ON

Project No. **11210029**
Revision No. **-**
Date **Dec 14, 2020**

WATER WELL RECORD SEARCH

FIGURE 4.1

Data source: WWIS, 2020. Ontario Ministry of the Environment (Accessed August, 2020); Imagery Google 2020. Capture date: 7/Jul/2018

0 30 60 90m

N

GHD

2374868 ONTARIO INC.
6678 WELLINGTON ROAD 34
WELLINGTON COUNTY, ONTARIO

PROPOSED MONITORING PROGRAM

Project No. 11210029
Date December 2020

FIGURE 5.1

Table 3.1

Monitoring Well Completion Details
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

Location	Easting	Northing	Installation Date	Diameter (mm)	Ground Surface Elevation (m AMSL)	Reference (Top of Riser) Elevation (m AMSL)	Sand Pack		Screen		Geological Unit
							(m AMSL)	(m bgs)	(m AMSL)	(m bgs)	
MW1-20	560291.98	4810969.38	11/19/2020	51	322.26	322.96	312.2 - 308.5	10.1 - 13.7	311.6 - 308.5	10.7 - 13.7	Fill, Sand, Top Soil, Sandy Silt, Silty Sand, Sand
MW2-20	560486.20	4810970.37	11/20/2020	51	319.50	320.15	311.0 - 307.3	8.5 - 12.2	310.4 - 307.3	9.1 - 12.2	Sand, Sand and Gravel, Sandy Silt
MW3-20	560405.03	4811158.33	11/20/2020	51	322.50	323.19	316.0 - 308.2	6.6 - 14.3	311.2 - 308.2	11.3 - 14.3	Top Soil, Sandy Silt, Clayey Silt, Silty Sand, Silt

Notes:
m AMSL metres above mean sea level.
m bgs metres below ground surface.
mm milimetre.

Table 3.2

Summary of Groundwater Elevations
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

Location	Ground Surface Elevation (m AMSL)	Reference Elevation (m AMSL)	11/23/2020		11/24/2020		11/25/2020		12/1/2020		12/4/2020	
			Depth to Water (m btor)	Groundwater Elevation (m AMSL)	Depth to Water (m btor)	Groundwater Elevation (m AMSL)	Depth to Water (m btor)	Groundwater Elevation (m AMSL)	Depth to Water (m btor)	Groundwater Elevation (m AMSL)	Depth to Water (m btor)	Groundwater Elevation (m AMSL)
MW1-20	322.26	322.96	11.44	311.52	--	--	11.48	311.48	11.50	311.46	11.51	311.45
MW2-20	319.50	320.15	8.39	311.76	8.39	311.76	--	--	8.42	311.73	8.43	311.72
MW3-20	322.50	323.19	6.19	317.00	7.12	316.07	--	--	7.03	316.16	7.06	316.13

Notes:
m btor metres below top of riser.
M AMSL metres above mean sea level.

Table 3.3

Hydraulic Conductivity Results
Hydrogeologic Impact Assessment
6678 Wellington Road 34
Cambridge, Ontario

Location	Test	Solution Method[2]	Aquifer Model	Hydraulic Conductivity[1] (cm/sec)
MW1-20	Falling Head 1	Bouwer-Rice	Unconfined	1.3E-04
	Rising Head 1	Bouwer-Rice	Unconfined	3.4E-04
	Rising Head 2	Bouwer-Rice	Unconfined	3.2E-04
MW2-20	Falling Head 1	Bouwer-Rice	Unconfined	3.0E-03
	Rising Head 1	Bouwer-Rice	Unconfined	8.8E-03
	Falling Head 2	Bouwer-Rice	Unconfined	3.4E-03
	Rising Head 2	Bouwer-Rice	Unconfined	9.1E-03
MW3-20	Falling Head 1	Bouwer-Rice	Unconfined	2.5E-05
	Rising Head 1	Bouwer-Rice	Unconfined	2.4E-05
			Geometric Mean:	**5.8E-04**

Notes:

(1) Calculated using AQTESOLV®, Version 4.51, HydroSOLVE, Inc.

(2) Bouwer, H. and R.C. Rice, 1976. A slug test method for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells, Water Resources Research, vol. 12, no. 3, pp. 423-428.

Table 4.1

Summary of Groundwater Quality for MW1-20, MW2-20, and MW3-20 Hydrogeologic Impact Assessment 6678 Wellington Road 34, Cambridge, Ontario

			Location:	MW1-20	MW1-20	MW2-20	MW2-20	MW2-20	MW2-20
			Sample ID:	GW-11210029-112520-MW-1	GW-11210029-120420-MW-01	GW-11210029-112420-MW-2	GW-11210029-112420-MW-2D	GW-11210029-120420-MW-02	GW-11210029-120420-MW-02D
			Report No.	L2533335-4	L2537182-1	L2533335-1	L2533335-2	L2537182-2	L2537182-3
			Sample Date:	25-Nov-20	4-Dec-2020	24-Nov-20	24-Nov-20	4-Dec-2020	4-Dec-2020
							DUPLICATE		DUPLICATE
	Table 2 Standards[2]	Table 3 Standards[3]	Units						
Physical Tests									
Conductivity			mS/cm	0.557	0.632	0.864	0.867	0.688	0.682
pH			pH Units	8.07	7.68	7.46	7.68	7.69	8.15
Anions and Nutrients									
Chloride	790000	2300000	ug/L	8170	11.7	8110	8000	5.40	5.42
Cyanides									
Cyanide, Weak Acid Diss	66	66	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Metals									
Aluminum			µg/L	352	366	6.6	6.4	9.2	9.6
Antimony			µg/L	0.23	0.21	<0.1	<0.1	<0.1	<0.1
Arsenic			µg/L	0.57	0.55	0.5	0.5	0.51	0.50
Barium			µg/L	72.9	93.9	78.3	77.4	53.1	53.7
Beryllium			µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bismuth			µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Boron (total)			µg/L	24	29	68	70	43	43
Cadmium			µg/L	0.0257	0.0319	0.101	0.102	0.0789	0.0807
Calcium			µg/L	71400	91000	93700	95400	96100	95500
Cesium			µg/L	0.033	0.039	<0.01	<0.01	<0.01	0.013
Chromium			µg/L	0.88	0.97	<0.5	<0.5	<0.5	0.58
Chromium, Hexavalent			µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt			µg/L	0.59	0.66	1.59	1.63	0.66	0.67
Copper			µg/L	1.39	1.43	18	17.5	10.4	10.8
Iron			µg/L	417	439	<10.0	<10.0	<10.0	<10.0
Lead			µg/L	0.628	0.725	0.27	0.171	0.083	0.095
Lithium			µg/L	9.1	12.4	2.6	2.7	1.9	1.9
Magnesium			µg/L	30100	34200	34300	34600	31000	31400
Manganese			µg/L	114	135	354	357	140	143
Mercury			µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Molybdenum			µg/L	4.24	3.25	1.14	1.11	0.528	0.542
Nickel			µg/L	1.46	1.73	8.97	9.19	4.90	4.93
Phosphorus			µg/L	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Potassium			µg/L	4100	5560	63200	63700	31200	32200
Rubidium			µg/L	1	0.99	10.4	10.5	5.87	5.94
Selenium			µg/L	0.074	0.109	0.119	0.125	0.113	0.128
Silicon			µg/L	6110	7050	4980	4960	4650	4750
Silver			µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sodium			µg/L	8500	9850	6570	6780	4900	5050
Strontium			µg/L	257	269	156	155	119	120
Sulfur			µg/L	8360	8870	7180	7080	5210	5360
Tellurium			µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium			µg/L	0.011	0.012	0.112	0.113	0.068	0.068
Thorium			µg/L	<0.1	0.11	<0.1	<0.1	<0.1	<0.1
Tin			µg/L	0.16	0.28	<0.1	<0.1	<0.1	<0.1
Titanium			µg/L	12.8	14.2	<0.3	<0.3	0.53	<0.3
Tungsten			µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Uranium			µg/L	0.879	0.905	0.608	0.609	0.428	0.432
Vanadium			µg/L	0.92	1.040	<0.5	<0.5	<0.5	<0.5
Zinc			µg/L	6.5	10.2	25.1	25.3	18.5	18.9
Zirconium			µg/L	0.37	0.40	<0.2	<0.2	<0.2	<0.2

Table 4.1

Summary of Groundwater Quality for MW1-20, MW2-20, and MW3-20 Hydrogeologic Impact Assessment 6678 Wellington Road 34, Cambridge, Ontario

	Table 2 Standards[2]	Table 3 Standards[3]	Units						
Location:				**MW1-20**	**MW1-20**	**MW2-20**	**MW2-20**	**MW2-20**	**MW2-20**
Sample ID:				**GW-11210029-112520-MW-1**	**GW-11210029-120420-MW-01**	**GW-11210029-112420-MW-2**	**GW-11210029-112420-MW-2D**	**GW-11210029-120420-MW-02**	**GW-11210029-120420-MW-02D**
Report No.				**L2533335-4**	**L2537182-1**	**L2533335-1**	**L2533335-2**	**L2537182-2**	**L2537182-3**
Sample Date:				**25-Nov-20**	**4-Dec-2020**	**24-Nov-20**	**24-Nov-20**	**4-Dec-2020**	**4-Dec-2020**
							DUPLICATE		**DUPLICATE**
Dissolved Metals									
Antimony (Sb)-Dissolved	6	20000	ug/L	0.18	0.16	<1.0	<1.0	<0.10	<0.10
Arsenic (As)-Dissolved	25	1900	ug/L	0.41	0.36	<1.0	<1.0	0.46	0.46
Barium (Ba)-Dissolved	1000	29000	ug/L	67.5	93.5	78.5	78.5	51.5	52.8
Beryllium (Be)-Dissolved	4	67	ug/L	<0.10	<0.10	<1.0	<1.0	<0.10	<0.10
Boron (B)-Dissolved	5000	45000	ug/L	22	23	<100	<100	36	36
Cadmium (Cd)-Dissolved	2.7	2	ug/L	<0.010	0.014	0.118	0.139	0.073	0.072
Chromium (Cr)-Dissolved	50	810	ug/L	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50
Cobalt (Co)-Dissolved	3.8	66	ug/L	0.39	0.43	1.6	1.6	0.62	0.64
Copper (Cu)-Dissolved	87	87	ug/L	0.66	0.70	17.1	17	10.5	10.8
Lead (Pb)-Dissolved	10	25	ug/L	<0.050	<0.050	<0.50	<0.50	<0.050	<0.050
Mercury (Hg)-Dissolved	0.29	0.29	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Molybdenum (Mo)-Dissolved	70	9200	ug/L	3.77	2.89	1.02	1.12	0.524	0.555
Nickel (Ni)-Dissolved	100	490	ug/L	0.88	1.13	9.2	9.5	4.70	4.94
Selenium (Se)-Dissolved	10	63	ug/L	0.069	0.096	<0.50	<0.50	0.146	0.111
Silver (Ag)-Dissolved	1.5	1.5	ug/L	<0.050	<0.050	<0.50	<0.50	<0.050	<0.050
Sodium (Na)-Dissolved	490000	2300000	ug/L	8450	9100	6920	7340	4670	4800
Thallium (Tl)-Dissolved	2	510	ug/L	<0.010	0.015	0.1	0.11	0.063	0.066
Uranium (U)-Dissolved	20	420	ug/L	0.764	0.816	0.61	0.6	0.348	0.351
Vanadium (V)-Dissolved	6.2	250	ug/L	<5.0	<0.50	<5.0	<5.0	<0.50	<0.50
Zinc (Zn)-Dissolved	1100	1100	ug/L	1.3	4.3	26	26	17.7	18.7
Volatile Organic Compounds									
Acetone	2700	130000	µg/L	<30	<30	<30	<30	<30	<30
Benzene	5	44	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	16	85000	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	25	380	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	0.89	5.6	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	0.79	0.79	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	30	630	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	25	82000	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	2.4	2.4	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane			µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	3	4600	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	59	9600	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	1	8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	590	4400	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	5	320	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	50	610	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5	16	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	0.5	5.2	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	0.5	5.2	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene (cis & trans)	0.5	5.2	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2.4	2300	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Hexane	51	51	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Ethyl Ketone	1800	470000	µg/L	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	640	140000	µg/L	<20	<20	<20	<20	<20	<20
MTBE	15	190	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	5.4	1300	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 4.1

Summary of Groundwater Quality for MW1-20, MW2-20, and MW3-20 Hydrogeologic Impact Assessment 6678 Wellington Road 34, Cambridge, Ontario

			Location:	**MW1-20**	**MW1-20**	**MW2-20**	**MW2-20**	**MW2-20**	**MW2-20**
			Sample ID:	**GW-11210029-112520-MW-1**	**GW-11210029-120420-MW-01**	**GW-11210029-112420-MW-2**	**GW-11210029-112420-MW-2D**	**GW-11210029-120420-MW-02**	**GW-11210029-120420-MW-02D**
			Report No.	**L2533335-4**	**L2537182-1**	**L2533335-1**	**L2533335-2**	**L2537182-2**	**L2537182-3**
			Sample Date:	**25-Nov-20**	**4-Dec-2020**	**24-Nov-20**	**24-Nov-20**	**4-Dec-2020**	**4-Dec-2020**
							DUPLICATE		**DUPLICATE**
	Table 2 Standards[2]	**Table 3 Standards[3]**	**Units**						
1,1,1,2-Tetrachloroethane	1.1	3.3	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	1	3.2	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	24	18000	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	200	640	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	4.7	4.7	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	150	2500	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	0.5	0.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene			µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
m+p-Xylenes			µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylenes (Total)	300	4200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hydrocarbons									
F1 (C6-C10)	750	750	µg/L	<25	<25	<25	<25	<25	<25
F1-BTEX			µg/L	<25	<25	<25	<25	<25	<25
F2 (C10-C16)	150	150	µg/L	<100	<100	<100	<100	<100	<100
F2-Naphth			µg/L	<100	<100	<100	<100	<100	<100
F3 (C16-C34)	500	500	µg/L	<250	<250	<250	<250	<250	<250
F3-PAH			µg/L	<250	<250	<250	<250	<250	<250
F4 (C34-C50)	500	500	µg/L	<250	<250	<250	<250	<250	<250
Total Hydrocarbons (C6-C50)			µg/L	<370	<370	<370	<370	<370	<370
Semi-Volatile Organics									
Biphenyl	0.5	1000	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
4-Chloroaniline	10	400	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Bis(2-chloroethyl)ether	5	300000	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Bis(2-chloroisopropyl)ether	120	20000	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2-Chlorophenol	8.9	3300	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
3,3'-Dichlorobenzidine	0.5	640	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4-Dichlorophenol	20	4600	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Diethylphthalate	38	38	µg/L	0.29	<0.20	<0.20	<0.20	<0.20	<0.20
Dimethylphthalate	38	38	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2,4-Dimethylphenol	59	39000	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dinitrophenol	10	11000	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,4-Dinitrotoluene	5	2900	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,6-Dinitrotoluene	5	2900	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4+2,6-Dinitrotoluene	5	2900	µg/L	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
Bis(2-ethylhexyl)phthalate	10	140	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Pentachlorophenol	30	62	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Phenol	890	12000	µg/L	0.53	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	70	180	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4,5-Trichlorophenol	8.9	1600	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2,4,6-Trichlorophenol	2	230	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Aggregate Organics									
Oil and Grease, Total			mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Animal/Veg Oil & Grease			mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Mineral Oil and Grease			mg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5

Table 4.1

Summary of Groundwater Quality for MW1-20, MW2-20, and MW3-20 Hydrogeologic Impact Assessment 6678 Wellington Road 34, Cambridge, Ontario

			Location:	MW1-20	MW1-20	MW2-20	MW2-20	MW2-20	MW2-20
			Sample ID:	GW-11210029-112520-MW-1	GW-11210029-120420-MW-01	GW-11210029-112420-MW-2	GW-11210029-112420-MW-2D	GW-11210029-120420-MW-02	GW-11210029-120420-MW-02D
			Report No.	L2533335-4	L2537182-1	L2533335-1	L2533335-2	L2537182-2	L2537182-3
			Sample Date:	25-Nov-20	4-Dec-2020	24-Nov-20	24-Nov-20	4-Dec-2020	4-Dec-2020
							DUPLICATE		DUPLICATE
	Table 2 Standards[2]	Table 3 Standards[3]	Units						
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	4.1	600	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Acenaphthylene	1	1.8	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anthracene	2.4	2.4	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)anthracene	1	4.7	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)pyrene	0.01	0.81	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b)fluoranthene	0.1	0.75	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(g,h,i)perylene	0.2	0.2	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(k)fluoranthene	0.1	0.4	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chrysene	0.1	1	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenzo(ah)anthracene	0.2	0.52	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluoranthene	0.41	130	µg/L	0.091	0.075	0.031	0.038	<0.020	<0.020
Fluorene	120	400	µg/L	0.053	<0.020	<0.020	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	0.2	0.2	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1+2-Methylnaphthalenes	3.2	1800	µg/L	0.141	<0.028	<0.028	<0.028	<0.028	<0.028
1-Methylnaphthalene	3.2	1800	µg/L	0.047	<0.020	<0.020	<0.020	<0.020	<0.020
2-Methylnaphthalene	3.2	1800	µg/L	0.094	<0.020	<0.020	<0.020	<0.020	<0.020
Naphthalene	11	1400	µg/L	0.073	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	1	580	µg/L	0.384	<0.020	0.024	0.027	<0.020	<0.020
Pyrene	4.1	68	µg/L	0.096	0.109	0.037	0.04	<0.020	<0.020

Table 1: Full Depth Background Site Condition Standards
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition.
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition.

Table 4.1

Summary of Groundwater Quality for MW1-20, MW2-20, and MW3-20 Hydrogeologic Impact Assessment 6678 Wellington Road 34, Cambridge, Ontario

			Location:	MW3-20	MW3-20	TRIP BLANK	TRIP BLANK
			Sample ID:	GW-11210029-112420-MW-3	GW-11210029-120420-MW-03	TRIP BLANK	TRIP BLANK
			Report No.	L2533335-3	L2537182-4	L2533335-5	L2537182-5
			Sample Date:	24-Nov-20	4-Dec-2020	25-Nov-20	4-Dec-2020
	Table 2 Standards[2]	Table 3 Standards[3]	Units				
Physical Tests							
Conductivity			mS/cm	0.609	0.624		
pH			pH Units	7.9	7.74		
Anions and Nutrients							
Chloride	790000	2300000	ug/L	4800	3.98		
Cyanides							
Cyanide, Weak Acid Diss	66	66	ug/L	<2.0	<2.0		
Total Metals							
Aluminum			µg/L	210	61		
Antimony			µg/L	0.15	<0.10		
Arsenic			µg/L	0.35	0.32000		
Barium			µg/L	68.9	70.8		
Beryllium			µg/L	<0.1	<0.1		
Bismuth			µg/L	<0.05	<0.05		
Boron (total)			µg/L	12	11		
Cadmium			µg/L	0.01	0.0067000		
Calcium			µg/L	80600	95300		
Cesium			µg/L	0.022	0.02		
Chromium			µg/L	<0.5	<0.5		
Chromium, Hexavalent			µg/L	<0.50	<0.50		
Cobalt			µg/L	0.64	0.51		
Copper			µg/L	0.96	1.42		
Iron			µg/L	224	68		
Lead			µg/L	0.299	0.123		
Lithium			µg/L	9.9	6.0		
Magnesium			µg/L	36900	39700		
Manganese			µg/L	90.6	50.9		
Mercury			µg/L	<0.005	<0.005		
Molybdenum			µg/L	16.9	16.9		
Nickel			µg/L	1.62	1.09		
Phosphorus			µg/L	<50.0	<50.0		
Potassium			µg/L	1910	1350		
Rubidium			µg/L	1.06	0.67		
Selenium			µg/L	0.226	0.107		
Silicon			µg/L	7250	7460		
Silver			µg/L	<0.05	<0.05		
Sodium			µg/L	6780	4390		
Strontium			µg/L	158	130		
Sulfur			µg/L	8990	7400		
Tellurium			µg/L	<0.2	<0.2		
Thallium			µg/L	<0.01	<0.01		
Thorium			µg/L	<0.1	<0.1		
Tin			µg/L	<0.1	0.13		
Titanium			µg/L	8.91	2.46		
Tungsten			µg/L	<0.1	<0.1		
Uranium			µg/L	2	0.957		
Vanadium			µg/L	0.87	0.72		
Zinc			µg/L	<3.0	<3.0		
Zirconium			µg/L	0.22	<0.2		

Table 4.1

Summary of Groundwater Quality for MW1-20, MW2-20, and MW3-20 Hydrogeologic Impact Assessment 6678 Wellington Road 34, Cambridge, Ontario

			Location:	MW3-20	MW3-20	TRIP BLANK	TRIP BLANK
			Sample ID:	GW-11210029-112420-MW-3	GW-11210029-120420-MW-03	TRIP BLANK	TRIP BLANK
			Report No.	L2533335-3	L2537182-4	L2533335-5	L2537182-5
			Sample Date:	24-Nov-20	4-Dec-2020	25-Nov-20	4-Dec-2020
	Table 2 Standards[2]	Table 3 Standards[3]	Units				
Dissolved Metals							
Antimony (Sb)-Dissolved	6	20000	ug/L	0.15	<0.10		
Arsenic (As)-Dissolved	25	1900	ug/L	0.31	0.22		
Barium (Ba)-Dissolved	1000	29000	ug/L	67.9	63.5		
Beryllium (Be)-Dissolved	4	67	ug/L	<0.10	<0.10		
Boron (B)-Dissolved	5000	45000	ug/L	11	<10		
Cadmium (Cd)-Dissolved	2.7	2	ug/L	<0.010	<0.010		
Chromium (Cr)-Dissolved	50	810	ug/L	<0.50	<0.50		
Cobalt (Co)-Dissolved	3.8	66	ug/L	0.57	0.41		
Copper (Cu)-Dissolved	87	87	ug/L	3.02	0.53		
Lead (Pb)-Dissolved	10	25	ug/L	0.109	<0.050		
Mercury (Hg)-Dissolved	0.29	0.29	ug/L	<0.0050	<0.0050		
Molybdenum (Mo)-Dissolved	70	9200	ug/L	15.8	1.85		
Nickel (Ni)-Dissolved	100	490	ug/L	1.35	0.95		
Selenium (Se)-Dissolved	10	63	ug/L	0.278	0.098		
Silver (Ag)-Dissolved	1.5	1.5	ug/L	<0.050	<0.050		
Sodium (Na)-Dissolved	490000	2300000	ug/L	6870	3680		
Thallium (Tl)-Dissolved	2	510	ug/L	<0.010	<0.010		
Uranium (U)-Dissolved	20	420	ug/L	1.86	0.867		
Vanadium (V)-Dissolved	6.2	250	ug/L	<5.0	<0.50		
Zinc (Zn)-Dissolved	1100	1100	ug/L	1.7	<1.0		
Volatile Organic Compounds							
Acetone	2700	130000	µg/L	<30	<30	<30	<30
Benzene	5	44	µg/L	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	16	85000	µg/L	<2.0	<2.0	<2.0	<2.0
Bromoform	25	380	µg/L	<5.0	<5.0	<5.0	<5.0
Bromomethane	0.89	5.6	µg/L	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	0.79	0.79	µg/L	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	30	630	µg/L	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	25	82000	µg/L	<2.0	<2.0	<2.0	<2.0
Chloroform	2.4	2.4	µg/L	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane			µg/L	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	3	4600	µg/L	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	59	9600	µg/L	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	1	8	µg/L	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	590	4400	µg/L	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	5	320	µg/L	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	50	610	µg/L	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5	16	µg/L	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	0.5	5.2	µg/L	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	0.5	5.2	µg/L	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene (cis & trans)	0.5	5.2	µg/L	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2.4	2300	µg/L	<0.50	<0.50	<0.50	<0.50
n-Hexane	51	51	µg/L	<0.50	<0.50	<0.50	<0.50
Methyl Ethyl Ketone	1800	470000	µg/L	<20	<20	<20	<20
Methyl Isobutyl Ketone	640	140000	µg/L	<20	<20	<20	<20
MTBE	15	190	µg/L	<2.0	<2.0	<2.0	<2.0
Styrene	5.4	1300	µg/L	<0.50	<0.50	<0.50	<0.50

Table 4.1

Summary of Groundwater Quality for MW1-20, MW2-20, and MW3-20 Hydrogeologic Impact Assessment 6678 Wellington Road 34, Cambridge, Ontario

			Location:	MW3-20	MW3-20	TRIP BLANK	TRIP BLANK
			Sample ID:	GW-11210029-112420-MW-3	GW-11210029-120420-MW-03	TRIP BLANK	TRIP BLANK
			Report No.	L2533335-3	L2537182-4	L2533335-5	L2537182-5
			Sample Date:	24-Nov-20	4-Dec-2020	25-Nov-20	4-Dec-2020
	Table 2 Standards[2]	Table 3 Standards[3]	Units				
1,1,1,2-Tetrachloroethane	1.1	3.3	µg/L	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	1	3.2	µg/L	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50
Toluene	24	18000	µg/L	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	200	640	µg/L	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	4.7	4.7	µg/L	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	1.6	µg/L	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	150	2500	µg/L	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	0.5	0.5	µg/L	<0.50	<0.50	<0.50	<0.50
o-Xylene			µg/L	<0.30	<0.30	<0.30	<0.30
m+p-Xylenes			µg/L	<0.40	<0.40	<0.40	<0.40
Xylenes (Total)	300	4200	µg/L	<0.50	<0.50	<0.50	<0.50
Hydrocarbons							
F1 (C6-C10)	750	750	µg/L	<25	<25	<25	<25
F1-BTEX			µg/L	<25	<25	<25	<25
F2 (C10-C16)	150	150	µg/L	<100	<100		
F2-Naphth			µg/L	<100	<100		
F3 (C16-C34)	500	500	µg/L	<250	<250		
F3-PAH			µg/L	<250	<250		
F4 (C34-C50)	500	500	µg/L	<250	<250		
Total Hydrocarbons (C6-C50)			µg/L	<370	<370		
Semi-Volatile Organics							
Biphenyl	0.5	1000	µg/L	<0.40	<0.40		
4-Chloroaniline	10	400	µg/L	<0.40	<0.40		
Bis(2-chloroethyl)ether	5	300000	µg/L	<0.40	<0.40		
Bis(2-chloroisopropyl)ether	120	20000	µg/L	<0.40	<0.40		
2-Chlorophenol	8.9	3300	µg/L	<0.30	<0.30		
3,3'-Dichlorobenzidine	0.5	640	µg/L	<0.40	<0.40		
2,4-Dichlorophenol	20	4600	µg/L	<0.30	<0.30		
Diethylphthalate	38	38	µg/L	0.29	<0.20		
Dimethylphthalate	38	38	µg/L	<0.20	<0.20		
2,4-Dimethylphenol	59	39000	µg/L	<0.50	<0.50		
2,4-Dinitrophenol	10	11000	µg/L	<1.0	<1.0		
2,4-Dinitrotoluene	5	2900	µg/L	<0.40	<0.40		
2,6-Dinitrotoluene	5	2900	µg/L	<0.40	<0.40		
2,4+2,6-Dinitrotoluene	5	2900	µg/L	<0.57	<0.57		
Bis(2-ethylhexyl)phthalate	10	140	µg/L	<2.0	<2.0		
Pentachlorophenol	30	62	µg/L	<0.50	<0.50		
Phenol	890	12000	µg/L	<0.50	<0.50		
1,2,4-Trichlorobenzene	70	180	µg/L	<0.40	<0.40		
2,4,5-Trichlorophenol	8.9	1600	µg/L	<0.20	<0.20		
2,4,6-Trichlorophenol	2	230	µg/L	<0.20	<0.20		
Aggregate Organics							
Oil and Grease, Total			mg/L	<5.0	<5.0		
Animal/Veg Oil & Grease			mg/L	<5.0	<5.0		
Mineral Oil and Grease			mg/L	<2.5	<2.5		

Table 4.1

Summary of Groundwater Quality for MW1-20, MW2-20, and MW3-20 Hydrogeologic Impact Assessment 6678 Wellington Road 34, Cambridge, Ontario

			Location:	**MW3-20**	**MW3-20**	**TRIP BLANK**	**TRIP BLANK**
			Sample ID:	**GW-11210029-112420-MW-3**	**GW-11210029-120420-MW-03**	**TRIP BLANK**	**TRIP BLANK**
			Report No.	**L2533335-3**	**L2537182-4**	**L2533335-5**	**L2537182-5**
			Sample Date:	**24-Nov-20**	**4-Dec-2020**	**25-Nov-20**	**4-Dec-2020**
	Table 2 Standards[2]	**Table 3 Standards[3]**	**Units**				
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	4.1	600	µg/L	<0.020	<0.020		
Acenaphthylene	1	1.8	µg/L	<0.020	<0.020		
Anthracene	2.4	2.4	µg/L	<0.020	<0.020		
Benzo(a)anthracene	1	4.7	µg/L	<0.020	<0.020		
Benzo(a)pyrene	0.01	0.81	µg/L	<0.010	<0.010		
Benzo(b)fluoranthene	0.1	0.75	µg/L	<0.020	<0.020		
Benzo(g,h,i)perylene	0.2	0.2	µg/L	<0.020	<0.020		
Benzo(k)fluoranthene	0.1	0.4	µg/L	<0.020	<0.020		
Chrysene	0.1	1	µg/L	<0.020	<0.020		
Dibenzo(ah)anthracene	0.2	0.52	µg/L	<0.020	<0.020		
Fluoranthene	0.41	130	µg/L	0.059	0.053		
Fluorene	120	400	µg/L	0.031	<0.020		
Indeno(1,2,3-cd)pyrene	0.2	0.2	µg/L	<0.020	<0.020		
1+2-Methylnaphthalenes	3.2	1800	µg/L	0.067	<0.028		
1-Methylnaphthalene	3.2	1800	µg/L	0.024	<0.020		
2-Methylnaphthalene	3.2	1800	µg/L	0.043	<0.020		
Naphthalene	11	1400	µg/L	<0.050	<0.050		
Phenanthrene	1	580	µg/L	0.21	0.029		
Pyrene	4.1	68	µg/L	0.059	0.056		

Table 1: Full Depth Background Site Condition Standards
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition.
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition.

Table 4.2

Summary of Water Supply A Zone Groundwater Quality
(July and August 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

		Location:	**Water Supply A Zone**	**Water Supply A Zone**	**Water Supply A Zone**
		Sample ID:	**W-11210029-20200702-12**	**W-11210029-20200723-18**	**W-11210029-20200813-24**
		Report No.	**L2468705-1**	**L2478867-1**	**L2488954-1**
		Sample Date:	**July 2 2020**	**July 23 2020**	**August 13 2020**
	Table 2 Standards [2] 2011	**Units**			
Metals					
Aluminum	--	µg/L	<5.0	<5.0	19.2
Antimony	6	µg/L	<0.1	<0.1	<0.1
Arsenic	25	µg/L	5.17	2.24	3.64
Barium	1000	µg/L	49.5	50.6	77.9
Beryllium (4)	4	µg/L	<0.1	<0.1	<0.1
Bismuth	--	µg/L	<0.05	<0.05	<0.05
Boron (total)	5000	µg/L	<10.0	<10.0	14
Cadmium (5)	2.7	µg/L	<0.005	<0.005	<0.005
Calcium	--	µg/L	70600	68300	48500
Cesium	--	µg/L	<0.01	<0.01	<0.01
Chromium	50	µg/L	<0.5	<0.5	<0.5
Chromium, Hexavalent	25	µg/L	<0.5	<0.5	<0.5
Cobalt	3.8	µg/L	0.11	<0.1	<0.1
Copper	87	µg/L	<0.5	4	<0.5
Iron	--	µg/L	400	22	244
Lead (6)	10	µg/L	0.227	0.268	0.083
Lithium	--	µg/L	3.4	3.9	3.2
Magnesium	--	µg/L	32600	31800	25600
Manganese	--	µg/L	10.8	7.64	8.13
Mercury	0.29	µg/L	<0.005	<0.005	<0.005
Molybdenum	70	µg/L	0.559	0.632	0.655
Nickel	100	µg/L	1.7	0.86	<0.5
Phosphorus	--	µg/L	<50.0	<50.0	<50.0
Potassium	--	µg/L	978	996	979
Rubidium	--	µg/L	<0.2	0.21	0.35
Selenium	10	µg/L	<0.05	<0.05	<0.05
Silicon	--	µg/L	8890	9290	7300
Silver	1.5	µg/L	<0.05	<0.05	<0.05
Sodium	490000	µg/L	7790	7510	5750
Strontium	--	µg/L	148	146	348
Sulfur	--	µg/L	20200	20100	7710
Tellurium	--	µg/L	<0.2	<0.2	<0.2
Thallium	2.0	µg/L	<0.01	<0.01	<0.01
Thorium	--	µg/L	<0.1	<0.1	<0.1
Tin	--	µg/L	<0.1	<0.1	<0.1
Titanium	--	µg/L	<0.3	<0.3	0.62
Tungsten	--	µg/L	<0.1	<0.1	<0.1
Uranium	20.0	µg/L	0.252	0.296	0.383
Vanadium	6.2	µg/L	<0.5	<0.5	<0.5
Zinc	1100	µg/L	5.4	5.0	<3.0
Zirconium	--	µg/L	<0.2	<0.2	<0.2
Total Plate Count	--	cfu/mL			
E. coli	--	cfu/100 mL			

Table 4.2

Summary of Water Supply A Zone Groundwater Quality
(July and August 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

		Location:	**Water Supply A Zone**	**Water Supply A Zone**	**Water Supply A Zone**
		Sample ID:	**W-11210029-20200702-12**	**W-11210029-20200723-18**	**W-11210029-20200813-24**
		Report No.	**L2468705-1**	**L2478867-1**	**L2488954-1**
		Sample Date:	**July 2 2020**	**July 23 2020**	**August 13 2020**
	Table 2 Standards [2] 2011	**Units**			
Volatile Organic Compounds					
Acetone	2700	µg/L	<30	<30	<30
Benzene	5	µg/L	<0.50	<0.50	<0.50
Bromodichloromethane	16	µg/L	<2.0	<2.0	<2.0
Bromoform	25	µg/L	<5.0	<5.0	<5.0
Bromomethane	0.89	µg/L	<0.50	<0.50	<0.50
Carbon tetrachloride	0.79	µg/L	<0.20	<0.20	<0.20
Chlorobenzene	30	µg/L	<0.50	<0.50	<0.50
Dibromochloromethane	25	µg/L	<2.0	<2.0	<2.0
Chloroform	2.4	µg/L	<1.0	<1.0	<1.0
1,2-Dibromoethane		µg/L	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	3	µg/L	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	59	µg/L	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	1	µg/L	<0.50	<0.50	<0.50
Dichlorodifluoromethane	590	µg/L	<2.0	<2.0	<2.0
1,1-Dichloroethane	5	µg/L	<0.50	<0.50	<0.50
1,2-Dichloroethane	1.6	µg/L	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Methylene Chloride	50	µg/L	<5.0	<5.0	<5.0
1,2-Dichloropropane	5	µg/L	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	0.5	µg/L	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	0.5	µg/L	<0.30	<0.30	<0.30
1,3-Dichloropropene (cis & trans)	0.5	µg/L	<0.50	<0.50	<0.50
Ethylbenzene	2.4	µg/L	<0.50	<0.50	<0.50
n-Hexane	51	µg/L	<0.50	<0.50	<0.50
Methyl Ethyl Ketone	1800	µg/L	<20	<20	<20
Methyl Isobutyl Ketone	640	µg/L	<20	<20	<20
MTBE	15	µg/L	<2.0	<2.0	<2.0
Styrene	5.4	µg/L	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	1.1	µg/L	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	1	µg/L	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Toluene	24	µg/L	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	200	µg/L	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	4.7	µg/L	<0.50	<0.50	<0.50
Trichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Trichlorofluoromethane	150	µg/L	<5.0	<5.0	<5.0
Vinyl chloride	0.5	µg/L	<0.50	<0.50	<0.50
o-Xylene		µg/L	<0.30	<0.30	<0.30
m+p-Xylenes		µg/L	<0.40	<0.40	<0.40
Xylenes (Total)	300	µg/L	<0.50	<0.50	<0.50

Table 4.2

Summary of Water Supply A Zone Groundwater Quality
(July and August 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

		Location:	**Water Supply A Zone**	**Water Supply A Zone**	**Water Supply A Zone**
		Sample ID:	**W-11210029-20200702-12**	**W-11210029-20200723-18**	**W-11210029-20200813-24**
		Report No.	**L2468705-1**	**L2478867-1**	**L2488954-1**
		Sample Date:	**July 2 2020**	**July 23 2020**	**August 13 2020**
	Table 2 Standards [2] 2011	**Units**			
Hydrocarbons					
F1 (C6-C10)	750	µg/L	<25	<25	<25
F1-BTEX		µg/L	<25	<25	<25
F2 (C10-C16)	150	µg/L	<100	<100	<100
F2-Naphth		µg/L	<100	<100	<100
F3 (C16-C34)	500	µg/L	<250	<250	<250
F3-PAH		µg/L	<250	<250	<250
F4 (C34-C50)	500	µg/L	<250	<250	<250
Total Hydrocarbons (C6-C50)		µg/L	<370	<370	<370
Semi-Volatile Organics					
Biphenyl	0.5	µg/L	<0.40	<0.40	<0.40
4-Chloroaniline	10	µg/L	<0.40	<0.40	<0.40
Bis(2-chloroethyl)ether	5	µg/L	<0.40	<0.40	<0.40
Bis(2-chloroisopropyl)ether	120	µg/L	<0.40	<0.40	<0.40
2-Chlorophenol	8.9	µg/L	<0.30	<0.30	<0.30
3,3'-Dichlorobenzidine	0.5	µg/L	<0.40	<0.40	<0.40
2,4-Dichlorophenol	20	µg/L	<0.30	<0.30	<0.30
Diethylphthalate	38	µg/L	<0.20	<0.20	<0.20
Dimethylphthalate	38	µg/L	<0.20	<0.20	<0.20
2,4-Dimethylphenol	59	µg/L	<0.50	<0.50	<0.50
2,4-Dinitrophenol	10	µg/L	<2.0	<2.0	<2.0
2,4-Dinitrotoluene	5	µg/L	<0.40	<0.40	<0.40
2,6-Dinitrotoluene	5	µg/L	<0.40	<0.40	<0.40
2,4+2,6-Dinitrotoluene	5	µg/L	<0.57	<0.57	<0.57
Bis(2-ethylhexyl)phthalate	10	µg/L	<2.0	<2.0	<2.0
Pentachlorophenol	30	µg/L	<0.50	<0.50	<0.50
Phenol	890	µg/L	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	70	µg/L	<0.40	<0.40	<0.40
2,4,5-Trichlorophenol	8.9	µg/L	<0.20	<0.20	<0.20
2,4,6-Trichlorophenol	2	µg/L	<0.20	<0.20	<0.20
Polychlorinated Biphenyls					
Aroclor 1242		µg/L	<0.020	<0.020	<0.020
Aroclor 1248		µg/L	<0.020	<0.020	<0.020
Aroclor 1254		µg/L	<0.020	<0.020	<0.020
Aroclor 1260		µg/L	<0.020	<0.020	<0.020
Total PCBs	3	µg/L	<0.040	<0.040	<0.040
Aggregate Organics					
BOD		µg/L			
Physical Tests					
pH		pH units			
Total Suspended Solids		µg/L			
Anions and Nutrients					
Phosphorus, Total		µg/L	5.6	<3.0	8.2
Organic / Inorganic Carbon					
Total Organic Carbon		µg/L			

Table 4.2

Summary of Water Supply A Zone Groundwater Quality
(July and August 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

		Location:	**Water Supply A Zone**	**Water Supply A Zone**	**Water Supply A Zone**
		Sample ID:	**W-11210029-20200702-12**	**W-11210029-20200723-18**	**W-11210029-20200813-24**
		Report No.	**L2468705-1**	**L2478867-1**	**L2488954-1**
		Sample Date:	**July 2 2020**	**July 23 2020**	**August 13 2020**
	Table 2 Standards [2] 2011	**Units**			
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	4.1	µg/L	<0.020	<0.020	<0.020
Acenaphthylene	1	µg/L	<0.020	<0.020	<0.020
Anthracene	2.4	µg/L	<0.020	<0.020	<0.020
Benzo(a)anthracene	1	µg/L	<0.020	<0.020	<0.020
Benzo(a)pyrene	0.01	µg/L	<0.010	<0.010	<0.010
Benzo(b)fluoranthene	0.1	µg/L	<0.020	<0.020	<0.020
Benzo(g,h,i)perylene	0.2	µg/L	<0.020	<0.020	<0.020
Benzo(k)fluoranthene	0.1	µg/L	<0.020	<0.020	<0.020
Chrysene	0.1	µg/L	<0.020	<0.020	<0.020
Dibenzo(ah)anthracene	0.2	µg/L	<0.020	<0.020	<0.020
Fluoranthene	0.41	µg/L	<0.020	<0.020	<0.020
Fluorene	120	µg/L	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	0.2	µg/L	<0.020	<0.020	<0.020
1+2-Methylnaphthalenes	3.2	µg/L	<0.028	<0.028	<0.028
1-Methylnaphthalene	3.2	µg/L	<0.020	<0.020	<0.020
2-Methylnaphthalene	3.2	µg/L	<0.020	<0.020	<0.020
Naphthalene	11	µg/L	<0.050	<0.050	<0.050
Phenanthrene	1	µg/L	<0.020	<0.020	<0.020
Pyrene	4.1	µg/L	<0.020	<0.020	<0.020

Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition.

Table 4.3

Summary of Water Supply EXI Zone Groundwater Quality
(July and August 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

		Location:	**Water Supply EXI Zone**	**Water Supply EXI Zone**	**Water Supply EXI Zone**
		Sample ID:	**W-11210029-20200709-14**	**W-11210029-20200730-20**	**W-11210029-20200813-26**
		Report No.	**L2472292-1**	**L2482453-1**	**L2491984**
		Sample Date:	**July 9 2020**	**July 30 2020**	**August 20 2020**
	Table 2 Standards[2] 2011	**Units**			
Metals					
Aluminum	--	µg/L	6.6	8.0	<5.0
Antimony	6	µg/L	<0.1	<0.1	<0.1
Arsenic	25	µg/L	5.8	3.62	2.80
Barium	1000	µg/L	65.3	70.5	49.2
Beryllium (4)	4	µg/L	<0.1	<0.1	<0.1
Bismuth	--	µg/L	<0.05	<0.05	<0.05
Boron (total)	5000	µg/L	14	14.0	<10
Cadmium (5)	2.7	µg/L	<0.005	<0.005	<0.005
Calcium	--	µg/L	46600	47800	68200
Cesium	--	µg/L	<0.01	<0.01	<0.01
Chromium	50	µg/L	<0.5	<0.5	<0.5
Chromium, Hexavalent	25	µg/L	<0.5	<0.5	<0.5
Cobalt	3.8	µg/L	<0.1	<0.1	<0.1
Copper	87	µg/L	<0.5	<0.5	2.22
Iron	--	µg/L	281	265	79
Lead (6)	10	µg/L	<0.05	<0.05	0.166
Lithium	--	µg/L	2.6	3.6	4.5
Magnesium	--	µg/L	27300	26600	34100
Manganese	--	µg/L	9.31	7.61	9.68
Mercury	0.29	µg/L	<0.005	<0.005	<0.005
Molybdenum	70	µg/L	0.703	0.668	0.589
Nickel	100	µg/L	<0.5	<0.5	<0.5
Phosphorus	--	µg/L	<50.0	<50.0	<50
Potassium	--	µg/L	995	991	937
Rubidium	--	µg/L	0.34	0.38	<0.2
Selenium	10	µg/L	<0.05	<0.05	<0.05
Silicon	--	µg/L	7600	7430	8950
Silver	1.5	µg/L	<0.05	<0.05	<0.05
Sodium	490000	µg/L	5880	5970	7880
Strontium	--	µg/L	322	356	147
Sulfur	--	µg/L	7150	8040	20400
Tellurium	--	µg/L	<0.2	<0.2	<0.2
Thallium	2.0	µg/L	<0.01	<0.01	<0.01
Thorium	--	µg/L	<0.1	<0.1	<0.1
Tin	--	µg/L	<0.1	<0.1	<0.1
Titanium	--	µg/L	<0.3	<0.3	<0.3
Tungsten	--	µg/L	<0.1	<0.1	<0.1
Uranium	20.0	µg/L	0.59	0.397	0.228
Vanadium	6.2	µg/L	<0.5	<0.5	<0.5
Zinc	1100	µg/L	<3.0	<3.0	4.1
Zirconium	--	µg/L	<0.2	<0.2	<0.2
Total Plate Count	--	cfu/mL			
E. coli	--	cfu/100 mL			

Table 4.3

Summary of Water Supply EXI Zone Groundwater Quality
(July and August 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

		Location:	Water Supply EXI Zone	Water Supply EXI Zone	Water Supply EXI Zone
		Sample ID:	W-11210029-20200709-14	W-11210029-20200730-20	W-11210029-20200813-26
		Report No.	L2472292-1	L2482453-1	L2491984
		Sample Date:	July 9 2020	July 30 2020	August 20 2020
	Table 2 Standards[2] 2011	**Units**			
Volatile Organic Compounds					
Acetone	2700	µg/L	<30	<30	<30
Benzene	5	µg/L	<0.50	<0.50	<0.50
Bromodichloromethane	16	µg/L	<2.0	<2.0	<2.0
Bromoform	25	µg/L	<5.0	<5.0	<5.0
Bromomethane	0.89	µg/L	<0.50	<0.50	<0.50
Carbon tetrachloride	0.79	µg/L	<0.20	<0.20	<0.20
Chlorobenzene	30	µg/L	<0.50	<0.50	<0.50
Dibromochloromethane	25	µg/L	<2.0	<2.0	<2.0
Chloroform	2.4	µg/L	<1.0	<1.0	<1.0
1,2-Dibromoethane		µg/L	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	3	µg/L	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	59	µg/L	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	1	µg/L	<0.50	<0.50	<0.50
Dichlorodifluoromethane	590	µg/L	<2.0	<2.0	<2.0
1,1-Dichloroethane	5	µg/L	<0.50	<0.50	<0.50
1,2-Dichloroethane	1.6	µg/L	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Methylene Chloride	50	µg/L	<5.0	<5.0	<5.0
1,2-Dichloropropane	5	µg/L	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	0.5	µg/L	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	0.5	µg/L	<0.30	<0.30	<0.30
1,3-Dichloropropene (cis & trans)	0.5	µg/L	<0.50	<0.50	<0.50
Ethylbenzene	2.4	µg/L	<0.50	<0.50	<0.50
n-Hexane	51	µg/L	<0.50	<0.50	<0.50
Methyl Ethyl Ketone	1800	µg/L	<20	<20	<20
Methyl Isobutyl Ketone	640	µg/L	<20	<20	<20
MTBE	15	µg/L	<2.0	<2.0	<2.0
Styrene	5.4	µg/L	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	1.1	µg/L	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	1	µg/L	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Toluene	24	µg/L	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	200	µg/L	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	4.7	µg/L	<0.50	<0.50	<0.50
Trichloroethylene	1.6	µg/L	<0.50	<0.50	<0.50
Trichlorofluoromethane	150	µg/L	<5.0	<5.0	<5.0
Vinyl chloride	0.5	µg/L	<0.50	<0.50	<0.50
o-Xylene		µg/L	<0.30	<0.30	<0.30
m+p-Xylenes		µg/L	<0.40	<0.40	<0.40
Xylenes (Total)	300	µg/L	<0.50	<0.50	<0.50

Table 4.3

Summary of Water Supply EXI Zone Groundwater Quality
(July and August 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

		Location:	Water Supply EXI Zone	Water Supply EXI Zone	Water Supply EXI Zone
		Sample ID:	W-11210029-20200709-14	W-11210029-20200730-20	W-11210029-20200813-26
		Report No.	L2472292-1	L2482453-1	L2491984
		Sample Date:	July 9 2020	July 30 2020	August 20 2020
	Table 2 Standards[2] 2011	**Units**			
Hydrocarbons					
F1 (C6-C10)	750	µg/L	<25	<25	<25
F1-BTEX		µg/L	<25	<25	<25
F2 (C10-C16)	150	µg/L	<100	<100	<100
F2-Naphth		µg/L	<100	<100	<100
F3 (C16-C34)	500	µg/L	<250	<250	<250
F3-PAH		µg/L	<250	<250	<250
F4 (C34-C50)	500	µg/L	<250	<250	<250
Total Hydrocarbons (C6-C50)		µg/L	<370	<370	<370
Semi-Volatile Organics					
Biphenyl	0.5	µg/L	<0.40	<0.40	<0.40
4-Chloroaniline	10	µg/L	<0.40	<0.40	<0.40
Bis(2-chloroethyl)ether	5	µg/L	<0.40	<0.40	<0.40
Bis(2-chloroisopropyl)ether	120	µg/L	<0.40	<0.40	<0.40
2-Chlorophenol	8.9	µg/L	<0.30	<0.30	<0.30
3,3'-Dichlorobenzidine	0.5	µg/L	<0.40	<0.40	<0.40
2,4-Dichlorophenol	20	µg/L	<0.30	<0.30	<0.30
Diethylphthalate	38	µg/L	<0.20	<0.20	0.25
Dimethylphthalate	38	µg/L	<0.20	<0.20	<0.20
2,4-Dimethylphenol	59	µg/L	<0.50	<0.50	<0.50
2,4-Dinitrophenol	10	µg/L	<2.0	<2.0	<1.0
2,4-Dinitrotoluene	5	µg/L	<0.40	<0.40	<0.40
2,6-Dinitrotoluene	5	µg/L	<0.40	<0.40	<0.40
2,4+2,6-Dinitrotoluene	5	µg/L	<0.57	<0.57	<0.57
Bis(2-ethylhexyl)phthalate	10	µg/L	<2.0	<2.0	<2.0
Pentachlorophenol	30	µg/L	<0.50	<0.50	<0.50
Phenol	890	µg/L	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	70	µg/L	<0.40	<0.40	<0.40
2,4,5-Trichlorophenol	8.9	µg/L	<0.20	<0.20	<0.20
2,4,6-Trichlorophenol	2	µg/L	<0.20	<0.20	<0.20
Polychlorinated Biphenyls					
Aroclor 1242		µg/L	<0.020	<0.020	<0.020
Aroclor 1248		µg/L	<0.020	<0.020	<0.020
Aroclor 1254		µg/L	<0.020	<0.020	<0.020
Aroclor 1260		µg/L	<0.020	<0.020	<0.020
Total PCBs	3	µg/L	<0.040	<0.040	<0.040
Aggregate Organics					
BOD		µg/L			
Physical Tests					
pH		pH units			
Total Suspended Solids		µg/L			
Anions and Nutrients					
Phosphorus, Total		µg/L	<3.0	3.4	3.8
Organic / Inorganic Carbon					
Total Organic Carbon		µg/L			

Table 4.3

Summary of Water Supply EXI Zone Groundwater Quality
(July and August 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

		Location:	**Water Supply EXI Zone**	**Water Supply EXI Zone**	**Water Supply EXI Zone**
		Sample ID:	**W-11210029-20200709-14**	**W-11210029-20200730-20**	**W-11210029-20200813-26**
		Report No.	**L2472292-1**	**L2482453-1**	**L2491984**
		Sample Date:	**July 9 2020**	**July 30 2020**	**August 20 2020**
	Table 2 Standards[2] 2011	**Units**			
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	4.1	µg/L	<0.020	<0.020	<0.020
Acenaphthylene	1	µg/L	<0.020	<0.020	<0.020
Anthracene	2.4	µg/L	<0.020	<0.020	<0.020
Benzo(a)anthracene	1	µg/L	<0.020	<0.020	<0.020
Benzo(a)pyrene	0.01	µg/L	<0.010	<0.010	<0.010
Benzo(b)fluoranthene	0.1	µg/L	<0.020	<0.020	<0.020
Benzo(g,h,i)perylene	0.2	µg/L	<0.020	<0.020	<0.020
Benzo(k)fluoranthene	0.1	µg/L	<0.020	<0.020	<0.020
Chrysene	0.1	µg/L	<0.020	<0.020	<0.020
Dibenzo(ah)anthracene	0.2	µg/L	<0.020	<0.020	<0.020
Fluoranthene	0.41	µg/L	<0.020	<0.020	<0.020
Fluorene	120	µg/L	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	0.2	µg/L	<0.020	<0.020	<0.020
1+2-Methylnaphthalenes	3.2	µg/L	<0.028	<0.028	<0.028
1-Methylnaphthalene	3.2	µg/L	<0.020	<0.020	<0.020
2-Methylnaphthalene	3.2	µg/L	<0.020	<0.020	<0.020
Naphthalene	11	µg/L	<0.050	<0.050	<0.050
Phenanthrene	1	µg/L	<0.020	<0.020	<0.020
Pyrene	4.1	µg/L	<0.020	<0.020	<0.020

Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition.

Table 4.4

Summary of Pond Surface Water Quality
(October to December 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

	Table 2 Standards[2] 2011	PWQO/ IPWQO [3] 1999	Units	W-11210029-20201001-38 L2511128-1 October 1 2020	W-11210029-20201008-40 L2514428-1 October 8 2020	W-11210029-20201015-42 L2517112-1 October 15 2020	W-11210029-20201022-44 L2520323-1 October 22 2020	W-11210029-20201029-46 L2523350-1 October 29 2020	W-11210029-20201105- 48 L2526411-1 November 5 2020	W-11210029-20201112-50 L2528910-1 November 12 2020	W-11210029-20201119-52 L2531509-1 November 19 2020	W-11210029-20201126-54 L2534021-1 November 26 2020
Metals												
Aluminum	--	75*	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	576	<5.0
Antimony	6	20	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.23	<0.1
Arsenic	25	5	µg/L	11.1	5.01	5.35	5.48	5.55	5.61	6.56	1.08	5.56
Barium	1000	--	µg/L	51.4	51.1	53.7	52.3	48.7	48	57.1	25.3	53.6
Beryllium (4)	4	1100	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bismuth	--	--	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Boron (total)	5000	200	µg/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	19	<10.0
Cadmium (5)	2.7	0.5	µg/L	0.0068	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0226	<0.005
Calcium	--	--	µg/L	69300	71700	70500	74800	66100	72400	73000	38600	67400
Cesium	--	--	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01
Chromium	50	8.9	µg/L	<0.5	<0.5	0.83	<0.5	<0.5	<0.5	<0.5	1.15	<0.5
Chromium, Hexavalent	25	1	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	3.8	0.9	µg/L	0.32	<0.1	0.11	0.19	0.11	<0.1	0.11	0.35	<0.1
Copper	87	5	µg/L	3	<0.5	<0.5	1	1	<0.5	<0.5	2.17	<0.5
Iron	--	300	µg/L	1760	387	520	432	478	386	620	690	403
Lead (6)	10	5	µg/L	0.959	0.055	0.072	0.647	0.135	<0.05	0.103	1.82	<0.05
Lithium	--	--	µg/L	3.9	4.0	3.0	4.2	3.3	4.1	3.3	<1.0	3.9
Magnesium	--	--	µg/L	32100	33900	33300	34300	31900	31800	34000	8280	32300
Manganese	--	--	µg/L	11.2	11.0	10.6	10.7	9.95	9.18	11.4	32.4	9.94
Mercury	0.29	0.2*	µg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Molybdenum	70	40	µg/L	0.567	0.544	0.586	0.58	0.563	0.531	0.599	2.98	0.601
Nickel	100	25	µg/L	12.5	<0.5	1.39	3.01	1.98	<0.5	0.89	1.32	<0.5
Phosphorus	--	--	µg/L	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Potassium	--	--	µg/L	986	980	930	1020	967	921	1040	2960	984
Rubidium	--	--	µg/L	<0.2	<0.2	<0.2	0.21	<0.2	<0.2	0.23	1.18	<0.2
Selenium	10	100	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.121	<0.05
Silicon	--		µg/L	9160	8700	9130	9290	8470	8250	9290	1260	9010
Silver	1.5	0.1	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sodium	490000	--	µg/L	7730	8200	7640	8040	7710	7510	8030	34800	7420
Strontium	--	--	µg/L	154	147	150	153	144	147	160	111	155
Sulfur	--	--	µg/L	19500	19300	20700	20300	17700	19100	19900	7870	20600
Tellurium	--	--	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	2.0	0.3	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Thorium	--	--	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tin	--	--	µg/L	0.18	<0.1	<0.1	0.17	<0.1	<0.1	<0.1	0.11	<0.1
Titanium	--	--	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	17.5	<0.3
Tungsten	--	30.0	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Uranium	20.0	5.0	µg/L	0.26	0.254	0.247	0.264	0.268	0.261	0.264	0.653	0.241
Vanadium	6.2	6.0	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.56	<0.5
Zinc	1100	20	µg/L	346.0	6.3	14.2	8.2	9.1	3	39.3	8.4	3.7
Zirconium	--	4	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.29	<0.2
Total Plate Count	--	--	cfu/mL									
E. coli	--	100 cfu/100 mL	cfu/100 mL									

Table 4.4

Summary of Pond Surface Water Quality
(October to December 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

	Table 2 Standards[2] 2011	PWQO/ IPWQO [3] 1999	Units	W-11210029-20201001-38	W-11210029-20201008-40	W-11210029-20201015-42	W-11210029-20201022-44	W-11210029-20201029-46	W-11210029-20201105- 48	W-11210029-20201112-50	W-11210029-20201119-52	W-11210029-20201126-54
Sample ID:				W-11210029-20201001-38	W-11210029-20201008-40	W-11210029-20201015-42	W-11210029-20201022-44	W-11210029-20201029-46	W-11210029-20201105- 48	W-11210029-20201112-50	W-11210029-20201119-52	W-11210029-20201126-54
Report No.				L2511128-1	L2514428-1	L2517112-1	L2520323-1	L2523350-1	L2526411-1	L2528910-1	L2531509-1	L2534021-1
Sample Date:				October 1 2020	October 8 2020	October 15 2020	October 22 2020	October 29 2020	November 5 2020	November 12 2020	November 19 2020	November 26 2020
Volatile Organic Compounds												
Acetone	2700		µg/L	<30	<30	<30	<30	<30	<30	<30	<30	<30
Benzene	5	100	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	16	200	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	25	60	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	0.89	0.9	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	0.79		µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	30	15	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	25		µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	2.4		µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane			µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	3	2.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	59	2.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	1	4	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	590		µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	5	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	1.6	100	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	40	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethylene	1.6	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	200	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	50	100	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5	0.7	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	0.5		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	0.5		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,3-Dichloropropene (cis & trans)	0.5		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2.4	8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Hexane	51		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Ethyl Ketone	1800	400	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Methyl Isobutyl Ketone	640		µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
MTBE	15	200	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	5.4	4	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	1.1	20	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	1	70	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	24	0.8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	200	10	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	4.7	800	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	20	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	150		µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	0.5	600	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene		40	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
m+p-Xylenes			µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylenes (Total)	300		µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 4.4

Summary of Pond Surface Water Quality
(October to December 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

	Table 2 Standards[2] 2011	PWQO/ IPWQO [3] 1999	Units	Sample ID: W-11210029-20201001-38	W-11210029-20201008-40	W-11210029-20201015-42	W-11210029-20201022-44	W-11210029-20201029-46	W-11210029-20201105- 48	W-11210029-20201112-50	W-11210029-20201119-52	W-11210029-20201126-54
Report No.				L2511128-1	L2514428-1	L2517112-1	L2520323-1	L2523350-1	L2526411-1	L2528910-1	L2531509-1	L2534021-1
Sample Date:				October 1 2020	October 8 2020	October 15 2020	October 22 2020	October 29 2020	November 5 2020	November 12 2020	November 19 2020	November 26 2020
Hydrocarbons												
F1 (C6-C10)	750		µg/L	<25	<25	<25	<25	<25	<25	<25	<25	<25
F1-BTEX			µg/L	<25	<25	<25	<25	<25	<25	<25	<25	<25
F2 (C10-C16)	150		µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100
F2-Naphth			µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100
F3 (C16-C34)	500		µg/L	<250	<250	<250	<250	<250	<250	<250	<250	<250
F3-PAH			µg/L	<250	<250	<250	<250	<250	<250	<250	<250	<250
F4 (C34-C50)	500		µg/L	<250	<250	<250	<250	<250	<250	<250	<250	<250
Total Hydrocarbons (C6-C50)			µg/L	<370	<370	<370	<370	<370	<370	<370	<370	<370
Semi-Volatile Organics												
Biphenyl	0.5	0.2	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
4-Chloroaniline	10		µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Bis(2-chloroethyl)ether	5	200	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Bis(2-chloroisopropyl)ether	120		µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2-Chlorophenol	8.9		µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
3,3'-Dichlorobenzidine	0.5	0.6	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4-Dichlorophenol	20	0.2	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Diethylphthalate	38		µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dimethylphthalate	38		µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2,4-Dimethylphenol	59	8	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dinitrophenol	10	10	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,4-Dinitrotoluene	5	4	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,6-Dinitrotoluene	5	6	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4+2,6-Dinitrotoluene	5		µg/L	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
Bis(2-ethylhexyl)phthalate	10		µg/L	<2.0	2.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Pentachlorophenol	30	0.5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Phenol	890	5	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	70	0.5	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
2,4,5-Trichlorophenol	8.9	18	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2,4,6-Trichlorophenol	2	18	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Polychlorinated Biphenyls												
Aroclor 1242			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1248			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1254			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Aroclor 1260			µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Total PCBs	3	0.001	µg/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Aggregate Organics												
BOD			µg/L									

Table 4.4

Summary of Pond Surface Water Quality
(October to December 2020)
Hydrogeologic Impact Assessment
6678 Wellington Road 34,
Cambridge, Ontario

	Table 2 Standards[2] 2011	PWQO/ IPWQO [3] 1999	Units	W-11210029-20201001-38 L2511128-1 October 1 2020	W-11210029-20201008-40 L2514428-1 October 8 2020	W-11210029-20201015-42 L2517112-1 October 15 2020	W-11210029-20201022-44 L2520323-1 October 22 2020	W-11210029-20201029-46 L2523350-1 October 29 2020	W-11210029-20201105- 48 L2526411-1 November 5 2020	W-11210029-20201112-50 L2528910-1 November 12 2020	W-11210029-20201119-52 L2531509-1 November 19 2020	W-11210029-20201126-54 L2534021-1 November 26 2020
Physical Tests												
pH			pH units									
Total Suspended Solids			µg/L									
Anions and Nutrients												
Phosphorus, Total			µg/L	5.8	6.3	4.2	6.2	6.3	5.6	5.7	29.4	4.9
Organic / Inorganic Carbon												
Total Organic Carbon			µg/L									
Polycyclic Aromatic Hydrocarbons												
Acenaphthene	4.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Acenaphthylene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anthracene	2.4		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)anthracene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(a)pyrene	0.01		µg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(b)fluoranthene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(g,h,i)perylene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzo(k)fluoranthene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chrysene	0.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Dibenzo(ah)anthracene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluoranthene	0.41		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Fluorene	120		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Indeno(1,2,3-cd)pyrene	0.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1+2-Methylnaphthalenes	3.2		µg/L	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
1-Methylnaphthalene	3.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
2-Methylnaphthalene	3.2		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Naphthalene	11		µg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Pyrene	4.1		µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

Notes:

(2) Full Depth Generic Site Condition Standards in a Potable Ground Water Condition All Types of Property Use, as provided in the Table 2 of the MECP document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011.

(3) PWQO=Provincial Water Quality Objective, MECP, February 1999
IPWQO= Interim Provincial Water Quality Objective, MECP, February 1999

(4) The PWQO for beryllium is 1.1 mg/L when the hardness as CaCO3 (mg/L) is >75

(5) The IPWQO for cadmium is 0.0005 mg/L when the hardness as CaCO3 (mg/L) is >100

(6) The IPWQO for lead is 0.005 mg/L when the hardness as CaCO3 (mg/L) is >80

(*) The PWQO is for Dissolved Metals

' -- No data or Standard available.

ND Not detected at the associated detection limit (DL).

µg/L microgram/liter

cfu /mL colony forming units/milliliter

Appendices

Appendix A
MECP Water Well Record Logs

UTM | | Z | | | | | | | | E

| 9 | R | | | | | | | | | N

Elev. | 9 | R | 1 | 0 | 5 | 0 |

Basin | 23 |

273

67 No. 2340

RECEIVED
MAR 28 1950
GEOLOGICAL BRANCH
DEPARTMENT OF MINES

ONTARIO

The Well Drillers Act

Department of Mines, Province of ~~Ontario~~

Water Well Record

[redacted] Con. 3 Lot ..... Pt. Lot ~~8~~ 7 H.T.

[redacted] R.# 2 Hespeler ..... Acres 1

Date Completed March 4th 1950 Cost of Well (not including pump) .....

Pipe and Casing Record	Pumping Test
Casing diameter(s) 4¼"	Date March4th 1950
Length(s) of casing(s) 88 ft.	Developed Capacity 5 G.P.M.
Length of screen	Duration of Test 2 hrs
Type of screen	Pumping Rate 5 G P M
Type of pump	Drawdown 15 ft.
Capacity of pump	Static level of completed well 36 ft
Depth of pump setting	Is well a gravel-wall type? gravel

Water Record

Kind (fresh or mineral) fresh

Quality (hard, soft, contains iron, sulphur etc.) hard

Appearance (clear, cloudy, coloured) clear

For what purpose(s) is the water to be used? house

How far is well from possible source of contamination? none

What is source of contamination? none

Enclose a copy of any mineral analysis that has been made of water

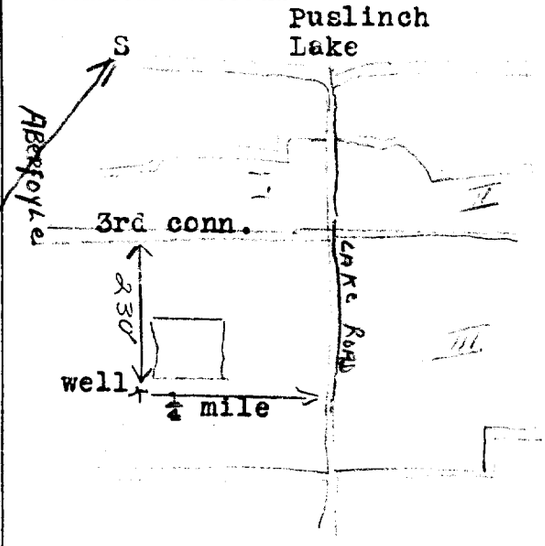
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
88 ft.	hard	52

Well Log

Drift and Bedrock Record	From	To
gravel	0 ft.	5 ft.
clay & boulders	5	16
sandy clay	16	23
coarse gravel	23	28
sandy clay	28	43
Quick sand	43	87
gravel	87	88

Location of Well

In diagram below show distances of well from road and lot line



Situation: Is well on upland, in valley, or on hillside? valley

Drilling Firm J.L.GRAHAM

Address 297 Exhibition St Guelph Ontario. CSS.S8

Recorded by W. H. Collingridge Address 5 Barton St. Guelph

Date March 4th 1950 Licence Number 354

UTM 11 E
5 R N
Elev. 6 R 1050

67 № 2342

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 23

County or District Wellington — Township, Village, Town or City Puslinch

Con. 3 Lot 8 — Date completed 14 (day) May (month) 67 (year)

Owner [redacted] (print in block letters) — Address 4 Honey Crescent R.R #2, Hespeler Guelph

Casing and Screen Record

Inside diameter of casing 6¼

Total length of casing 92

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole 5in

Pumping Test

Static level 33

Test-pumping rate 20 G.P.M.

Pumping level 37

Duration of test pumping 1hr

Water clear or cloudy at end of test clear

Recommended pumping rate 10 G.P.M.

with pump setting of 50 to 70 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Stones and Gravel	0	35	94	fresh
Sandy clay and small stones	35	85		
Sand and Gravel	85	90		
Silty sand	90	92		
Rock	92	96		

For what purpose(s) is the water to be used? Domestic

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm W Packham

Address RR2 Ancaster

Licence Number 2498

Name of Driller or Borer W Packham

Address RR2 Ancaster

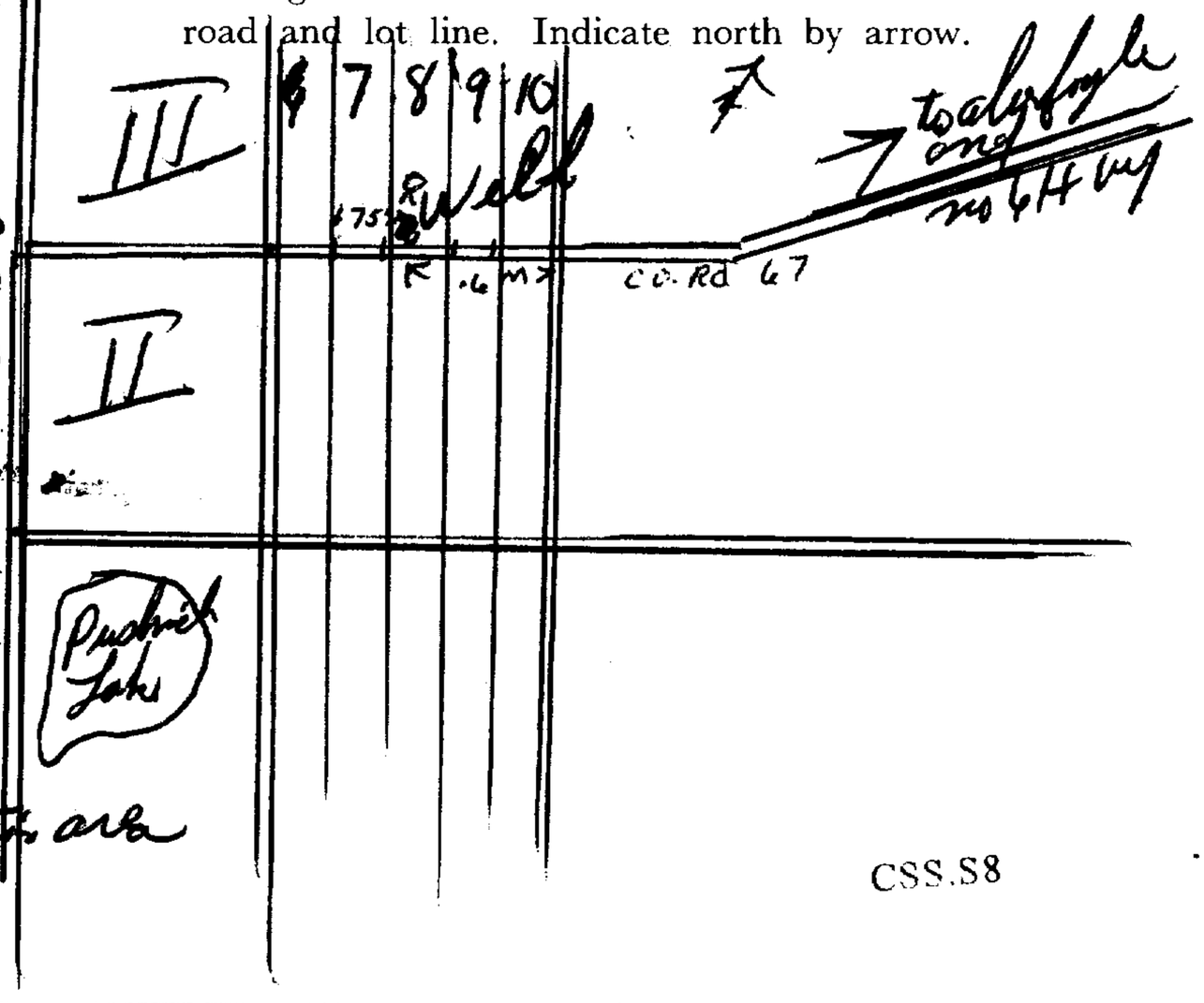
Date May 14/67

[redacted]

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 7 15M-60-4138 125ft N & S Rd 4W side of county reforestation area

OWRC COPY

CSS.S8

(746)

UTM Z E

5 R N

Elev. 5 R 1050

Basin 23

The Ontario Water Resources Commission Act

WATER WELL RECORD

GROUND WATER BRANCH
67 No 2343
MAR 23 1962
ONTARIO WATER RESOURCES COMMISSION

County or District Wellington

Township, Village, Town or City Puslinch

Con. ~~Front of 3rd con.~~ Lot 9

Date completed 12th (day) March (month) 1962 (year)

(Well County tree farm)

Owner County of Wellington, (Guelph) (print in block letters)

Address County Clerk Office, Woolwich St Guelph Ont.

Casing and Screen Record

Inside diameter of casing 5 inch

Total length of casing 77 ft

Type of screen none

Length of screen nil

Depth to top of screen nil

Diameter of finished hole 5 inch

Pumping Test

Static level 23 ft

Test-pumping rate 10 G.P.M.

Pumping level 40 ft

Duration of test pumping 3 hrs

Water clear or cloudy at end of test clear

Recommended pumping rate ~~25~~ 8 G.P.M.

with pump setting of 35 ft feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
dug well	0	22	90'-126'	fresh
~~kindxxfxwater~~ coarse sand gravel	22	54		
fine sand (grey)	54	65		
fine sand, gravel (coarse)	65	78		
light brown rock	78	125		
dark brown rock	125	126		

For what purpose(s) is the water to be used? domestic

Is well on upland, in valley, or on hillside? hillside

Drilling or Boring Firm J L Graham Drilling Contractor

Address 119 Renfield St. Guelph Ont

Licence Number 481

Name of Driller or Borer Robert Graham

Address 210 Waverley Drive Guelph Ont.

Date March 17th 1962.

[redacted]

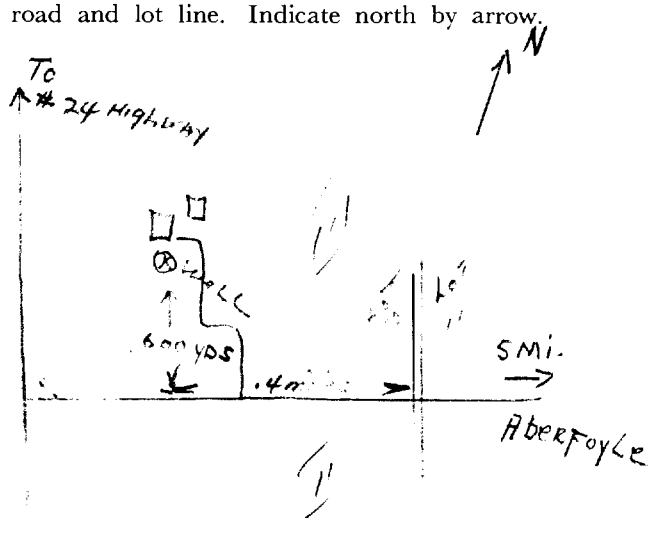
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.S8

17 5 60 1 0 0 Con II Lot 7

5 48 1 0 1 5 0 CODED 6703141

5 7 0 4 5

23 Keystone 50A

40P/6W

7

DIVISION OF WATER RESOURCES
JAN 9 1969
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District: Wellington

Township, Village, Town or City: [redacted]

Con. 2 Lot 7 Date completed: 4th December 1968 (day month year)

[redacted] Address: ~~Guelph~~ Ont. RR # 2 Hespeler

Casing and Screen Record

Inside diameter of casing: 5 inch

Total length of casing: 111 ft

Type of screen: ——

Length of screen: ——

Depth to top of screen: ——

Diameter of finished hole: 5 inch

Pumping Test

Static level: 42 ft

Test-pumping rate: 10 G.P.M.

Pumping level: 60 ft

Duration of test pumping: 1hr. bailer test

Water clear or cloudy at end of test: clear

Recommended pumping rate: 10 G.P.M.

with pump setting of: 60 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
stones and gravel	0	48	180	fresh
clay and gravel	48	90	to	
hard packed sand	90	111	194	
brown rock	111	155		
light grey rock	180	194		

For what purpose(s) is the water to be used? household

Is well on upland, in valley, or on hillside? hillside

Drilling or Boring Firm: Graham Well Drilling

mailing R R 2 Guelph Ont.

Address:

Licence Number: 2855

Name of Driller or Borer: Arthur Titus

Address: 25 Eramosa Rd. Guelph

Date: December 4th 1968

[redacted]

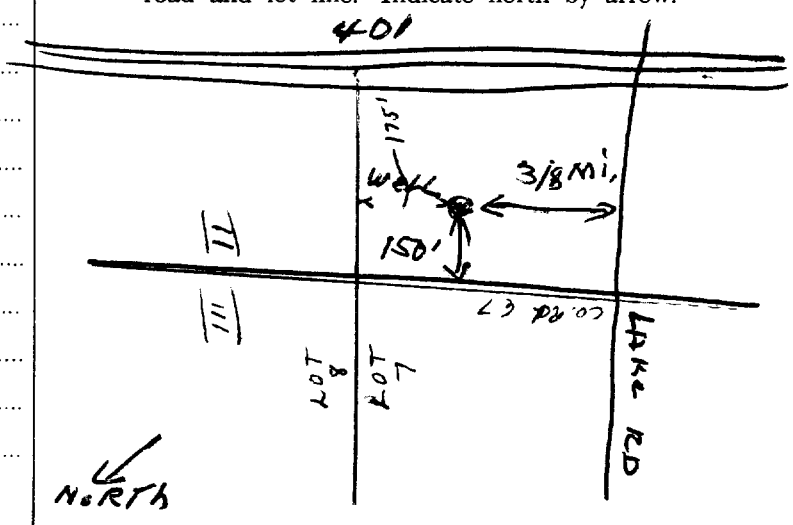
(Signature of Licensed Drilling or Boring Contractor)

Form 7 5M 60-20912

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.S8

The Ontario Water Resources Commission Act

WATER WELL RECORD

40 P/SWI

Water management in Ontario

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11 6704535 MUNICIP. 67012 CON. C/N 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
WELLINGTON	PUSLINCH	2	009

[redacted] 2 Fairview Dr Preston

DATE COMPLETED DAY 27 MO. 04 YR. 73

G 102280 RC. 4 ELEVATION 1035 RC. 5 BASIN CODE 23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	TO
		well pit		0	5
Brown	Clay &	Boulders.		5	24
		Sandy Clay & boulders		24	82
		Cemented gravel		82	92
		Rock		92	167

31 0005 23 0024 6051 3 0067 26

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0160	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	TO
05	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	244	0	93 ~~0893~~
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		93	0167
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	0012 GPM.	01 HOURS 30 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
032 FEET	038 FEET	033 FEET	FEET	032 FEET	FEET

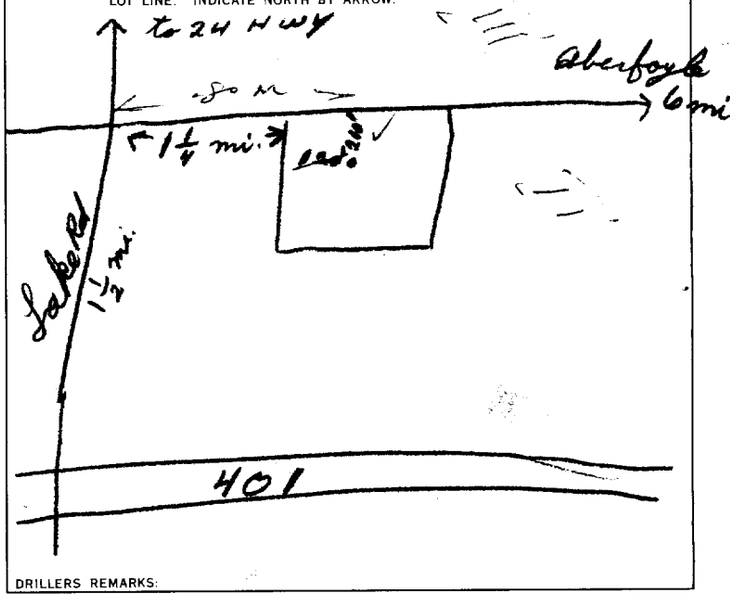
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM.	FEET	1 ☐ CLEAR 2 ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	080 FEET	0012 GPM.

50-53 0002.0 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY
2 ☐ OBSERVATION WELL
3 ☐ TEST HOLE
4 ☐ RECHARGE WELL
5 ☐ ABANDONED, INSUFFICIENT SUPPLY
6 ☐ ABANDONED, POOR QUALITY
7 ☐ UNFINISHED

WATER USE 01

1 ☒ DOMESTIC
2 ☐ STOCK
3 ☐ IRRIGATION
4 ☐ INDUSTRIAL
☐ OTHER
5 ☐ COMMERCIAL
6 ☐ MUNICIPAL
7 ☐ PUBLIC SUPPLY
8 ☐ COOLING OR AIR CONDITIONING
9 ☐ NOT USED

METHOD OF DRILLING

1 ☒ CABLE TOOL
2 ☐ ROTARY (CONVENTIONAL)
3 ☐ ROTARY (REVERSE)
4 ☐ ROTARY (AIR)
5 ☐ AIR PERCUSSION
6 ☐ BORING
7 ☐ DIAMOND
8 ☐ JETTING
9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Paul Weber — LICENCE NUMBER: 5469

ADDRESS: RR 2 Breslau

NAME OF DRILLER OR BORER: L Clayton Shantz — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [redacted] — SUBMISSION DATE DAY 30 MO. 1 YR. 73

OFFICE USE ONLY

DATA SOURCE 58: 1 — CONTRACTOR 59-62: 5469 — DATE RECEIVED 63-68: 020273

DATE OF INSPECTION — INSPECTOR

REMARKS: 088 88

P WI

OWRC COPY

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

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11 | 6704990 | MUNICIP. 67012 | CON. CON | 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Wellington	Puslinch	conc. 2	007

[redacted] KITCHENER

DATE COMPLETED: DAY 14 MO. 02 YR. 74

1 2	6704990	17	380131	4810122	4	1045	4	23	MAR 20, 1975	50

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	clay	stones		0	40
"	"	gravel		40	60
Dark brown-hardpan,		sand		60	90
" "	"	" coarse gravel		90	100
" "	sand	gravel		100	106
		gravel		106	107
			Total depth 107 ft.		

31 | 0040606051/4 | 0060606051/1 | 0090606/1428 | 0/0060/1428/1/1 | 0/0060/28/1/1 | 0/007 1/1

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0107	☒ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
05	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	.188	0	~~106~~ 0106
05	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☒ OPEN HOLE		106	0107
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
☐ PUMP ☒ BAILER	0010 GPM	01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING ☐ PUMPING ☒ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
040 FEET	048 FEET		040 FEET	FEET	FEET	FEET

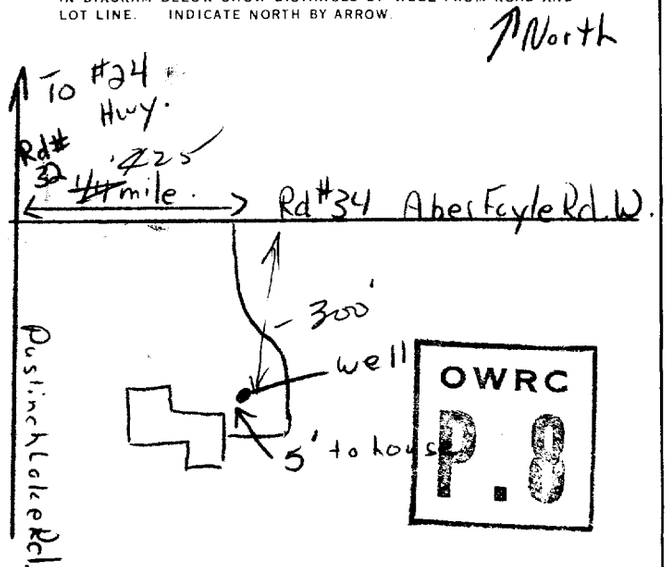
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	☐ CLEAR ☒ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	055 FEET	0010 GPM

50-53 0.01.3 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

OWRC P.8

FINAL STATUS OF WELL	54
	1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED
WATER USE 01	55-56: 1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF DRILLING	57: 1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: R.H. Gra ham Well Drilling — LICENCE NUMBER: 2336

ADDRESS: 212 Waverley Drive, GUELPH, Ont.

NAME OF DRILLER OR BORER: J. Hawkins — LICENCE NUMBER: 22W71

[redacted] SUBMISSION DATE: DAY 21 MO. 2 YR. 74

OFFICE USE ONLY

DATA SOURCE	CONTRACTOR	DATE RECEIVED
1	2336	250274

DATE OF INSPECTION | INSPECTOR

REMARKS: CSS.58

P W1

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FORM 7 07-091

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 6705884 | MUNICIP. 67012 | CON. C&N | 0.3

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	BLOCK, TRACT, SURVEY, ETC.	LOT
Wellington	Puslinch	3	008

[redacted] RR2 Hespeler

DATE COMPLETED: DAY 01 MO. 04 YR. 75

6705884	11	986215	4810720	4	1060	4	23	AUG 09, 1977	320

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	Dug Well			0	15
Grey	clay			15	45
Grey	clay Hardpan			45	77
Grey	Broken Limestone			77	79
Grey	Limestone			79	97

31 | 0015 | 23 | 0045205 | 0077205 14 | 0079215 71 | 0097215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0087	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06 6¼	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0079 79
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	0007 GPM.	01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
037 FEET	090 FEET	047 FEET	037 FEET	037 FEET	037 FEET

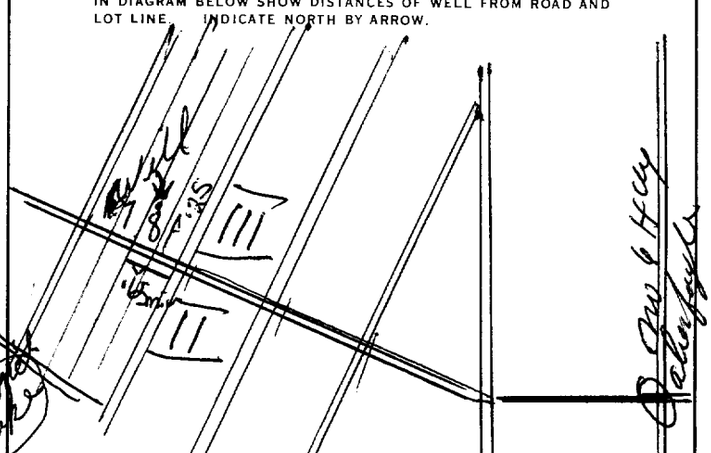
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	080 FEET	0007 GPM

50-53 ___.___ GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 6010

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.


Well
Concrete
Barn
Concrete
Concrete
Concrete

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

40 P/82

1. PRINT ONLY IN SPACES PROVIDED
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11 6706720 MUNICIP. 67012 CON. CON 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	PART
WELL. Co.	PUSLINCH TWP	CON. 2	007

[redacted] 7 GUELPH

DATE COMPLETED: DAY 05 MO. ~~JUNE~~ 06 YR. 78

[redacted] 10980 RC 4 ELEVATION 1030 RC 4 BASIN CODE 23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	GRAVEL	SAND	STONEY	0	15
	SAND			15	100
	GRAVEL		FINE	100	111

31 00 15 11 28 87 01 00 28 01 11 29

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0100 ~~100 110~~	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
04	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0111
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	0010 GPM	03 HOUR 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☐ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
048 FEET	050 FEET	FEET	FEET	FEET	FEET

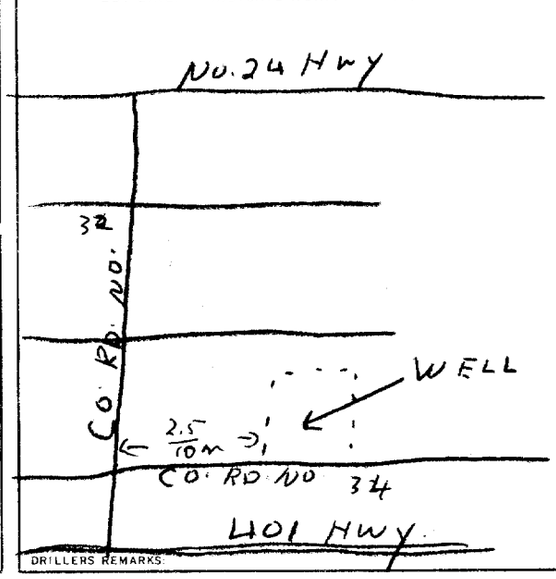
IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: 1 ☐ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: 060 FEET
RECOMMENDED PUMP NG RATE: 0008 GPM

GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL	1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED
WATER USE 01	1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF DRILLING 1	1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: HARVEY HILL WELL DRILLING — LICENCE NUMBER: 2564
ADDRESS: RR1 ELORA ONT.
NAME OF DRILLER OR BORER: — LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: [redacted] — SUBMISSION DATE: DAY ___ MO. ___ YR. ___

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 2564 — DATE RECEIVED: 070778
DATE OF INSPECTION: July 1979 — INSPECTOR: 39
REMARKS: CSS.S8 — P — WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

6708332

1. PRINT ONLY IN SPACES PROVIDED
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COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	LOT
[redacted]	Puslinch	III	7
[redacted]	Puslinch		DATE COMPLETED DAY 30 MO Nov. YR. 85

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Brown	gravel	stone clay		0	30
Brown	sand	gravel clay		30	50
Gray	clay	sand gravel		50	80
Gray	limestone			80	92

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
90	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	80
6 1/4	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		80	92
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP Air 2 ☐ BAILER	9 GPM	1 HOURS 0 MINS

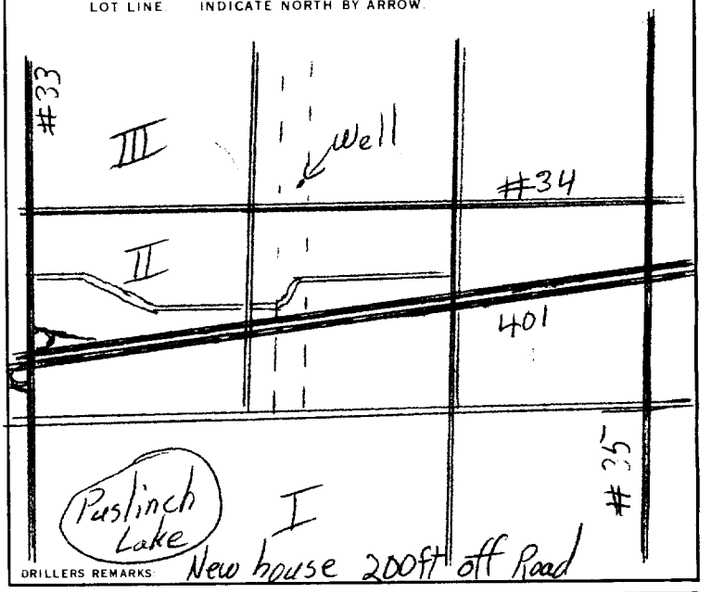
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
34 FEET	92 FEET	40 FEET	35 FEET	35 FEET	34 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	92 FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	85 FEET	9 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS: New house 200ft off Road

FINAL STATUS OF WELL	1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED
WATER USE	1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF DRILLING	1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☒ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Packham Well Drilling Inc. — LICENCE NUMBER: 4207
ADDRESS: 1235 Trinity Rd. Ancaster Ont.
NAME OF DRILLER OR BORER: Mervyn Packham — LICENCE NUMBER: 4207
SIGNATURE OF CONTRACTOR: Mervyn Packham — SUBMISSION DATE: DAY 30 MO Nov. YR. 85

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED 13 01 86
DATE OF INSPECTION | INSPECTOR
REMARKS

CSS.ES

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FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

6710346

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11

MUNICIP 6,7,0,1,2 CON. CON 03

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC	LOT
Wellington	Puslinch	III	8

OWNER (SURNAME FIRST)	ADDRESS	DATE COMPLETED
Van-Del Contracting LTD	RR#1 Breslau Ont N0B 1M0	DAY 8 MO May YR 90

21 ZONE EASTING NORTHING RC. ELEVATION RC. BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Brown	clay	gravel stones		0	5
Grey	clay	silt	soft	5	80
Grey	sand	silt clay		80	94
White	Limestone			94	140

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
125	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS (29PM)
138	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	188	0	97
6 1/8	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC		97	140
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP (Air) 2 ☐ BAILER	100 GPM	1 HOURS 0 MINS

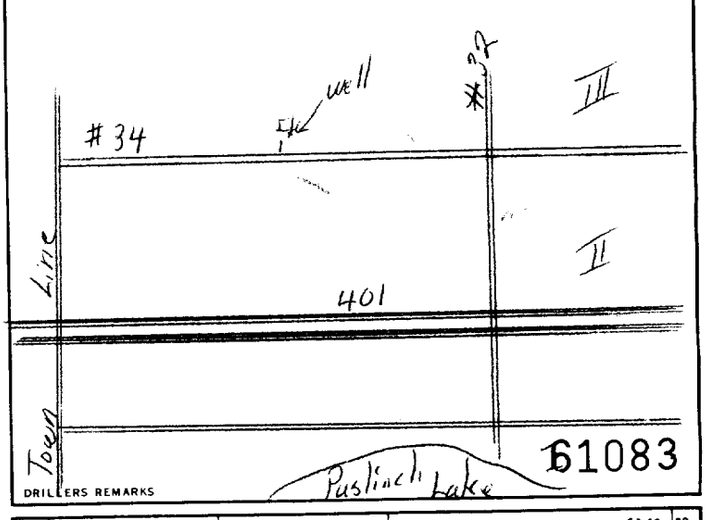
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
37 FEET	140 FEET	37 FEET	37 FEET	37 FEET	37 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	100 FEET	20 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS 61083

FINAL STATUS OF WELL	1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED ☐ DEWATERING
WATER USE	1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF CONSTRUCTION	1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☒ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING ☐ DIGGING ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Packham Well Drilling Inc.
WELL CONTRACTOR'S LICENCE NUMBER: 4207
ADDRESS: RR#2 Ancaster Ont.
NAME OF WELL TECHNICIAN: Mervyn Packham
WELL TECHNICIAN'S LICENCE NUMBER: 10058
SIGNATURE OF TECHNICIAN/CONTRACTOR: [redacted]
SUBMISSION DATE: DAY 8 MO May YR 90

OFFICE USE ONLY

DATA SOURCE
CONTRACTOR 4207
DATE RECEIVED JUN 26 1990
DATE OF INSPECTION
INSPECTOR
REMARKS

CSS.ES

FORM NO. 0506 (11/86) FORM 9

MINISTRY OF THE ENVIRONMENT COPY

Ministry of Environment and Energy
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

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Mark correct box with a checkmark, where applicable.

11 — 6712051 — Municipality 67012 — Con. CON 07

County or District: [redacted]

Township/Borough/City/Town/Village: Rushlinch

Con block tract survey, etc.: 7 — Lot: 3

Address: R.R. #22 Cambridge

Date completed: 06 08 96 (day month year)

Northing — RC — Elevation — RC — Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth – feet From	Depth – feet To
	Gravel	Sand		0	20
	Sand		Fine	20	44
	Gravel	Sand		44	60
Brown	Clay	Sand & Gravel		60	106
	Gravel	Sand	Fine	106	111
	Gravel		Coarse	111	
			Total =	111	
		6" Casing Drive Shoe			

WATER RECORD

Water found at – feet	Kind of water
111	☒ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas

CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth – feet From	Depth – feet To
6"	☒ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	.188	+2	111
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

PLUGGING & SEALING RECORD

☒ Annular space ☐ Abandonment

Depth set at – feet From	To	Material and type (Cement grout, bentonite, etc.)
0	20	Bentonite

PUMPING TEST

Pumping test method: ☒ Pump ☐ Bailer

Pumping rate: 20 GPM

Duration of pumping: 7 Hours ..... Mins

Static level	Water level end of pumping	15 minutes	30 minutes	45 minutes	60 minutes
59 feet	99 feet	69 feet	79 feet	89 feet	99 feet

Water levels during: ☒ Pumping ☐ Recovery

If flowing give rate: GPM

Pump intake set at: feet

Water at end of test: ☒ Clear ☐ Cloudy

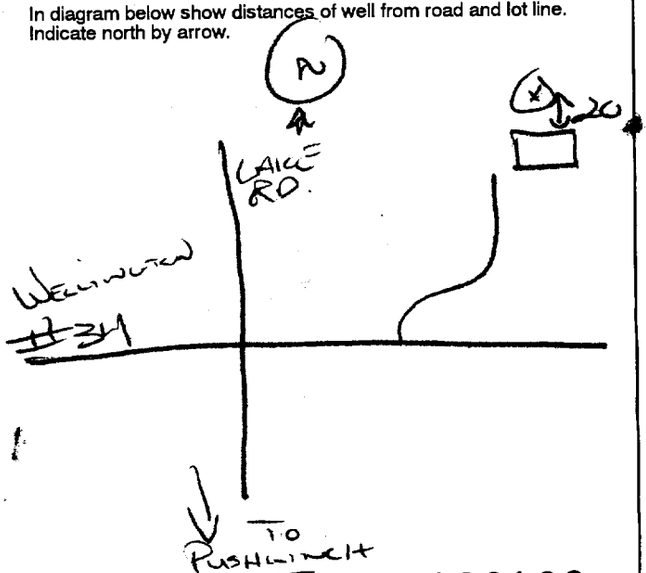
Recommended pump type: ☐ Shallow ☒ Deep

Recommended pump setting: 100 feet

Recommended pump rate: 20 GPM

LOCATION OF WELL

In diagram below show distances of well from road and lot line. Indicate north by arrow.



169102

FINAL STATUS OF WELL

☒ Water supply ☐ Observation well ☐ Test hole ☐ Recharge well ☐ Abandoned, insufficient supply ☐ Abandoned, poor quality ☐ Abandoned (Other) ☐ Dewatering ☐ Unfinished ☐ Replacement well

WATER USE

☒ Domestic ☐ Stock ☐ Irrigation ☐ Industrial ☐ Commercial ☐ Municipal ☐ Public supply ☐ Cooling & air conditioning ☐ Not used ☐ Other .....

METHOD OF CONSTRUCTION

☐ Cable tool ☐ Rotary (conventional) ☐ Rotary (reverse) ☒ Rotary (air) ☐ Air percussion ☐ Boring ☐ Diamond ☐ Jetting ☐ Driving ☐ Digging ☐ Other .....

Name of Well Contractor: Hansen Well Drilling Ltd. — Well Contractor's Licence No.: 2663

Address: R.R. #5 Guelph Ont.

Name of Well Technician: Henry R. Hansen — Well Technician's Licence No.: T-0590

Signature of Technician/Contractor: [redacted] — Submission date: 09 08 96 (day mo yr)

MINISTRY USE ONLY: Data source — Contractor: 2663 — Date received: AUG 27 1996

Date of inspection — Inspector

Remarks

CSS.ES

0506 (07/94) Front Form 9

2 - MINISTRY OF ENVIRONMENT & ENERGY COPY

Ontario — Ministry of Environment and Energy

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 — 6714539 — Municipality 67012 — Con. CON 03

County or District	Township/Borough/City/Town/Village	Con. Block tract survey, etc.	Lot
[redacted]	PUSLINCH	3	8

Address of Well Location: 6670 WELLINGTON RD. #34

Date completed: 25 07 03 (day month year)

21 — UTM: Zone | Easting | Northing | RC | Elevation | RC | Basin Code | ii | iii | iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
BLACK	TOP SOIL			0	2
BROWN	CLAY	SAND	SOFT	2	85
	GRAVEL			85	92
			TOTAL = 92 FT.		
		6"/4"	CASING DRIVE SHOE		

31

32

41 WATER RECORD

Water found at - feet	Kind of water
92	1 ☑ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
UNTESTED	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6/4	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	.188	+2	92
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic		GRAVEL PACK 90	92
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

61 PLUGGING & SEALING RECORD

☑ Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
0	20	BENTEAL

PUMPING TEST

Pumping test method	Pumping rate	Duration of pumping
1 ☑ Pump 2 ☐ Bailer	20 GPM	1 Hours Mins

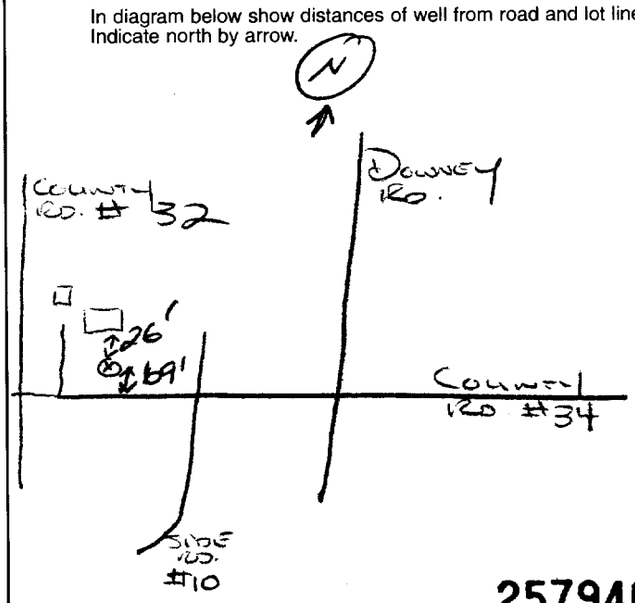
Static level	Water level end of pumping	Water levels during ☑ Pumping ☐ Recovery: 15 minutes	30 minutes	45 minutes	60 minutes
36 feet	40 feet	39 feet	40 feet	40 feet	40 feet

If flowing give rate: GPM — Pump intake set at: feet — Water at end of test: ☑ Clear ☐ Cloudy

Recommended pump type: ☐ Shallow ☑ Deep — Recommended pump setting: 80 feet — Recommended pump rate: 20 GPM

LOCATION OF WELL

In diagram below show distances of well from road and lot line. Indicate north by arrow.



257946

FINAL STATUS OF WELL

1 ☑ Water supply
2 ☐ Observation well
3 ☐ Test hole
4 ☐ Recharge well
5 ☐ Abandoned, insufficient supply
6 ☐ Abandoned, poor quality
7 ☐ Abandoned (Other)
8 ☐ Dewatering
9 ☐ Unfinished
10 ☐ Replacement well

WATER USE

1 ☑ Domestic
2 ☐ Stock
3 ☐ Irrigation
4 ☐ Industrial
5 ☐ Commercial
6 ☐ Municipal
7 ☐ Public supply
8 ☐ Cooling & air conditioning
9 ☐ Not use
10 ☐ Other

METHOD OF CONSTRUCTION

1 ☐ Cable tool
2 ☐ Rotary (conventional)
3 ☐ Rotary (reverse)
4 ☑ Rotary (air)
5 ☐ Air percussion
6 ☐ Boring
7 ☐ Diamond
8 ☐ Jetting
9 ☐ Driving
10 ☐ Digging
11 ☐ Other

Name of Well Contractor	Well Contractor's Licence No.
HANSEN WELL DRILLING LTD	2663
Address: 22 #5 GUELPH ONT. N1H 6J2	
Name of Well Technician: JOHN WHITNEY	Well Technician's Licence No.: T-2790
Signature of Technician/Contractor: [redacted]	Submission date: 01 08 03 (day mo yr)

MINISTRY USE ONLY

Data source	Contractor	Date received
	2663	AUG 12 2003
Date of inspection	Inspector	
Remarks		

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0506 (06/02) Front Form 9

18-08

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well T A 072033 (Print Below)

A072033

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

[redacted]

County/District/Municipality	City/Town/Village	Province	Postal Code
WELLINGTON	~~GUELPH~~ CAMBRIDGE	Ontario	

6666 WELL. RD #34 RR#22 — E PUSLINCH — 7 — 3

UTM Coordinates: NAD 83, Zone 17, Easting 560189, Northing 4810496

Municipal Plan and Sublot Number:

Other:

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BROWN	CLAY	STONES - SAND		0	18
BROWN	CLAY	SAND		18	45
BROWN	SAND			45	90
BROWN	SAND	GRAVEL		90	94
GREY	CLAY	GRAVEL		94	97
BROWN	LIMESTONE			97	102
			TOTAL	102 FT	

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	20	BENTONITE SLURRY	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☑ Other, specify AIR ROTARY

Well Use

☐ Public ☐ Commercial ☐ Not used
☑ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6 1/8	STEEL	.188	+2	98
6 1/8	OPEN HOLE		98	102

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Status of Well

☑ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Water Details

Water found at Depth 102 (m/ft) ☐ Gas — Kind of Water: ☑ Fresh ☐ Untested ☐ Other, specify

Water found at Depth (m/ft) ☐ Gas — Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify

Water found at Depth (m/ft) ☐ Gas — Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20	8 3/4
20	102	6 1/8"

Results of Well Yield Testing

After test of well yield, water was:
☑ Clear and sand free
☐ Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft): 80 FT

Pumping rate (l/min / GPM): 12 GPM

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 43 FT

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 80 FT

Recommended pump rate (l/min / GPM): 12 GPM.

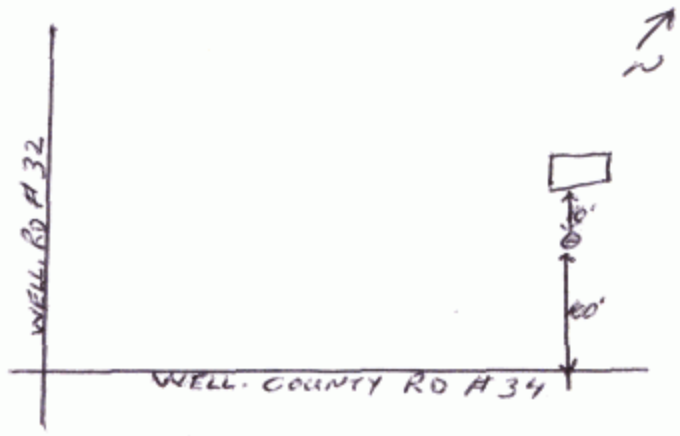
Well production (l/min / GPM): 12 GPM

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	35 FT		
1	38	1	40
2	40	2	38
3	41	3	37
4	41 6	4	36
5	42 6	5	35
10	42 6	10	35
15	43	15	35
20	43	20	35
25	43	25	35
30	43	30	35
40	43	40	35
50	43	50	35
60	43	60	35

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business ~~Name of Well Contractor~~ ADDRESS: 2086 SHANTZ STN. RD

Well Contractor's Licence No.: 7385

Business ~~Address (Street Number~~ Name): JIM WILSON WELL DRILLING

Municipality: BRESLAU.

Province: ON

Postal Code: N0B1M0

Business E-mail Address:

Bus. Telephone No. (inc. area code): 5196482412

Name of Well Technician (Last Name, First Name): WILSON JIM

Well Technician's Licence No.: T1924

Signature of Technician and/or Contractor: [redacted]

Date Submitted: 20080529

Well owner's information package delivered: ☑ Yes ☐ No

Date Package Delivered: 20080505

Date Work Completed: 20080505

Ministry Use Only

Audit No. Z 80621

Received JUN 09 2008

0506E (12/2007)

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Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. (If any) **A 087181**

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

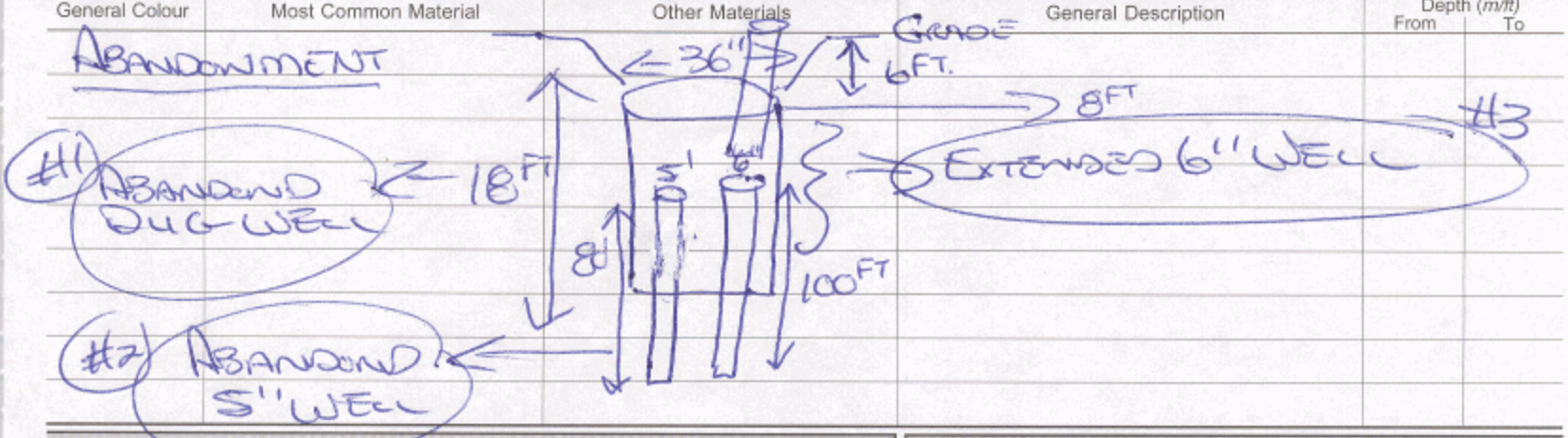
Address of Well Location (Street Number/Name)	Township	Lot	Concession
#6678 WELLINGTON RD. #34 RR#22	PUSLINCH	PT 8	3

County/District/Municipality	City/Town/Village	Province	Postal Code
WELLINGTON	PUSLINCH	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	560290	4810922		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
ABANDONMENT					



Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
#1) 0	18	BENTONITE + GRAVEL (DUG WELL)	
#2) -6	80	BENTONITE (5" WELL)	
		GRAVEL = 6 YARDS	
		BENTONITE = 1850 LBS.	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* ____

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* ____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Status of Well

☐ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☑ Alteration (Construction)
☑ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify* ____
☐ Other, *specify* ____

Water Details

Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, *specify* ____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

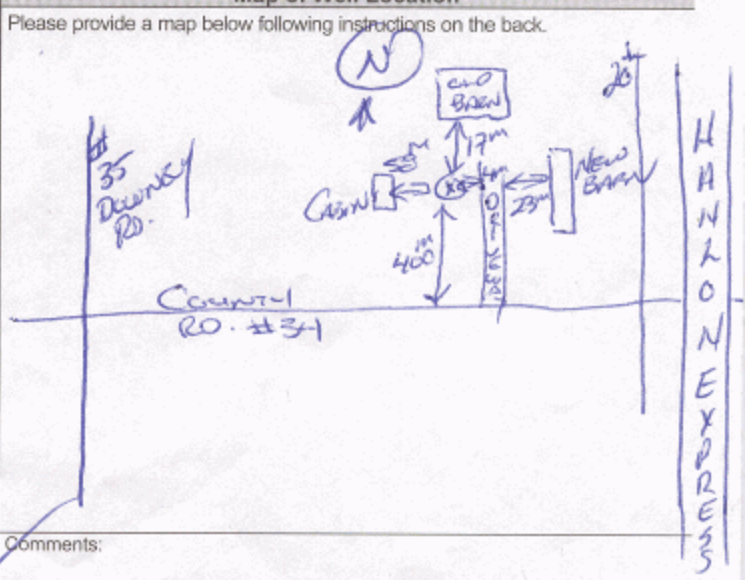
Well production *(l/min / GPM)*

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
HANNON WELL DRILLING LTD	2663

Business Address (Street Number/Name)	Municipality
RR#5 GUELPH N1H 6J2	WELLINGTON

Province	Postal Code	Business E-mail Address
ONT.	N1H 6J2	hannonwelldrilling@bellnet.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
519 763 8239	HANNON, HENRY

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2663	[redacted]	2009/12/15

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☑ No		2009/11/17

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Audit No. Z 107698

Received APR 23 2010

0506E (12/2007)

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Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*

Tag#: A137700

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

[redacted]

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
6669 COUNTY RD #34	PUSLINCH TWP	8	2

County/District/Municipality	City/Town/Village	Province	Postal Code
WELLINGTON		Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	560279	4810368		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BROWN	SAND	STONES		0	51ft
BROWN	SAND			51	90
BROWN	SAND	GRAVEL	WET	90	97
BROWN	LIMESTONE		BROKEN / CLAY LAYERS	97	112
GREY	LIMESTONE		HARD	112	137ft

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	20	GROUT	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☑ Other, *specify* AIR-RE

Well Use

☐ Public ☐ Commercial ☐ Not used
☑ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6"	STEEL	.188	+2	102
6"	OPEN HOLE		102	137

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
	N/A.			

Status of Well

☑ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth	Kind of Water	
105 (m/ft) ☐ Gas	☑ Fresh ☑ Untested ☐ Other, *specify*	
131 (m/ft) ☐ Gas	☑ Fresh ☑ Untested ☐ Other, *specify*	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	137	6"

Results of Well Yield Testing

After test of well yield, water was:
☑ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at (m/ft): 75ft

Pumping rate (l/min / GPM): 40

Duration of pumping: 1 hrs + ___ min

Final water level end of pumping (m/ft): 42

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 75-80ft

Recommended pump rate (l/min / GPM): 15-20

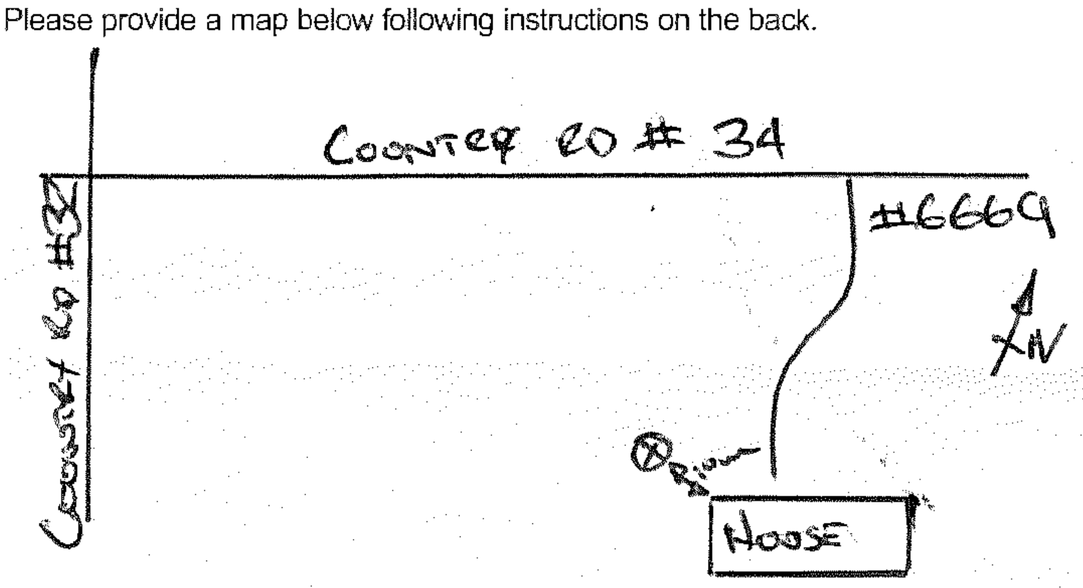
Well production (l/min / GPM): 60+ AIR

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	41ft		
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	42
15		15	
20		20	41
25		25	
30		30	
40		40	
50		50	
60		60	41

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
HIGHLAND WATER WELLS	2576

Business Address (Street Number/Name)	Municipality
Box 141, Durham	

Province	Postal Code	Business E-mail Address
ONT	N0G1R0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
5193696363	POPPLETON, NIKEL

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2130	[redacted]	20130319

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	YYYY MM DD	20130318

Ministry Use Only

Audit No. Z 162250

Rec'd JAN 06 2014

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Ministry's Copy

Ontario

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Go Back to Map

Well ID

Well ID Number: 7262884
Well Audit Number: *Z226390*
Well Tag Number: *A191498*

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	6656 WELLINGSTON RD 34
Township	PUSLINCH TOWNSHIP
Lot	007
Concession	CON 03
County/District/Municipality	WELLINGTON
City/Town/Village	Cambridge
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 560039.00 Northing: 4810550.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	SAND			0 ft	17 ft
	SAND	GRVL		17 ft	30 ft
	SAND	GRVL	CLAY	30 ft	50 ft
BRWN	SAND			50 ft	60 ft

BRWN	SAND	60 ft	101 ft
GREY	LMSN	101 ft	125 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	20 ft	BENTONITE SLURRY	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
DUAL ROTARY	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6.125 inch	STEEL	-2 ft	103 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7556

Results of Well Yield Testing

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	110 ft
Pumping Rate	12 GPM
Duration of Pumping	1 h:0 m

Final water level	38.333 ft
If flowing give rate	
Recommended pump depth	110 ft
Recommended pump rate	12 GPM
Well Production	
Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	38 ft		
1	38.333 ft	1	38.083 ft
2	38.333 ft	2	38 ft
3	38.333 ft	3	38 ft
4	38.333 ft	4	38 ft
5	38.333 ft	5	38 ft
10	38.333 ft	10	38 ft
15	38.333 ft	15	38 ft
20	38.333 ft	20	38 ft
25	38.333 ft	25	38 ft
30	38.333 ft	30	38 ft
40	38.333 ft	40	38 ft
45		45	
50	38.333 ft	50	38 ft
60	38.333 ft	60	38 ft

Water Details

Water Found at Depth	Kind
125 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	20 ft	10 inch
20 ft	103 ft	6.625 inch
103 ft	125 ft	6 inch

Audit Number: Z226390

Date Well Completed: March 03, 2016

Date Well Record Received by MOE: May 11, 2016

Updated: January 24, 2020

Ontario

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Go Back to Map

Well ID

Well ID Number: 7262885
Well Audit Number: *Z226388*
Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	6656 WELL RD 34
Township	PUSLINCH TOWNSHIP
Lot	007
Concession	CON 03
County/District/Municipality	WELLINGTON
City/Town/Village	Cambridge
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 560654.00 Northing: 4810535.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	108 ft	HOLEPLUG	

Method of Construction & Well Use

Method of Construction	Well Use
	Domestic

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
4 inch	STEEL		

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7556

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production

Disinfected? Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: Z226388

Date Well Completed: March 03, 2016

Date Well Record Received by MOE: May 12, 2016

Updated: January 24, 2020

Appendix B
Stratigraphic and Instrumentation Logs

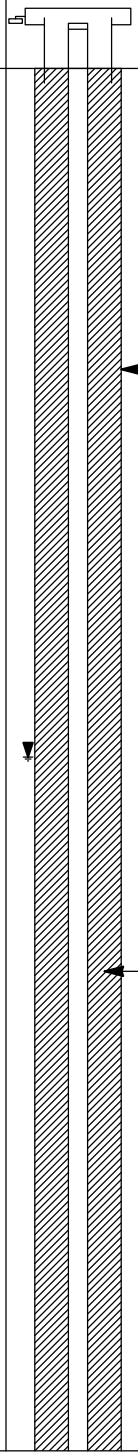
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW1-20
DATE COMPLETED: 19 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

NORTHING: 4810969.38
EASTING: 560291.98

TOP OF RISER	322.96	
GROUND SURFACE	322.26	



DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
	FILL						
2.5	SAND (FILL), with gravel, trace silt and cobbles, fine to coarse grained, brown, moist	319.82	1		75		1.1
3.0	TOPSOIL, sand, silt, with gravel, trace cobbles, cohesive, dark brown, moist	319.36					
	SANDY SILT, with gravel, trace cobbles, cohesive, light brown, moist	319.21	2		100		3.6
			3		100		9.1
			4		100		6.4
			5				3.9
			6		20		4.2

0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

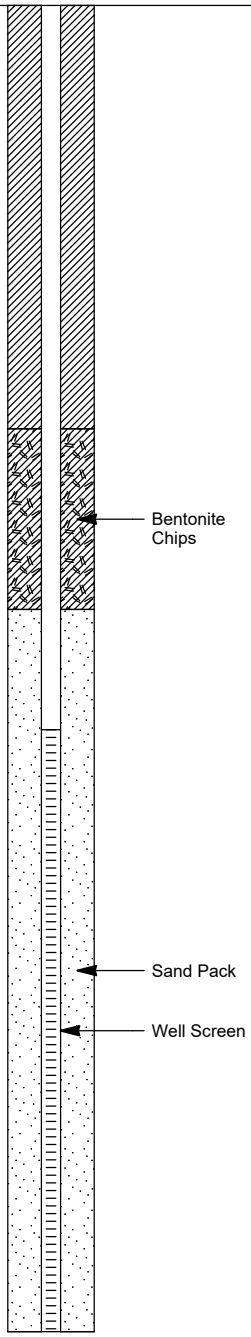
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW1-20
DATE COMPLETED: 19 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS
8.5	SILTY SAND, and gravel, trace cobbles, fine to coarse grained, light brown, moist to wet	313.72
10.0	SAND, with silt and gravel, trace cobbles, fine to medium grained, brown, wet	312.20
12.0	- increase in fine sand and silt, decrease in gravel at 12.19m BGS	
13.5	END OF BOREHOLE @ 13.72m BGS	308.54

MONITOR INSTALLATION



WELL DETAILS
Screened interval:

SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
7		100		4.2
8		100		4.0
9		100		2.4
10		100		4.5
11		100		3.5
12		100		2.2
13		100		1.0
14		100		1.5

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW1-20
DATE COMPLETED: 19 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
14.5	Note: PID readings are reflective of background conditions		311.59 to 308.54mAMSL 10.67 to 13.72m BGS Length: 3.05m Diameter: 51mm Slot Size: #10 Material: PVC Sand Pack: 312.20 to 308.54mAMSL 10.06 to 13.72m BGS Material: Silica					
15.0								
15.5								
16.0								
16.5								
17.0								
17.5								
18.0								
18.5								
19.0								
19.5								
20.0								
20.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

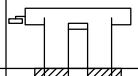
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

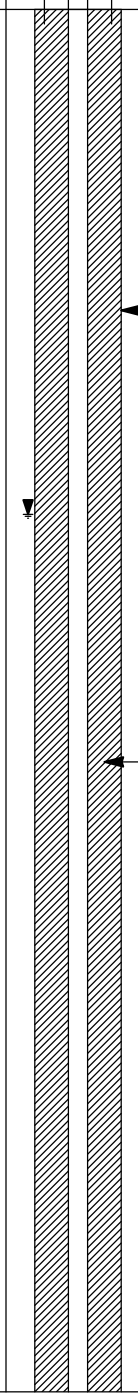
HOLE DESIGNATION: MW2-20
DATE COMPLETED: 20 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

NORTHING: 4810970.37
EASTING: 560486.2

	ELEV. BGS
TOP OF RISER	320.15
GROUND SURFACE	319.50



DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS
	SAND, with gravel, trace silt and cobbles, fine to coarse grained, brown, moist	
	SAND AND GRAVEL, trace silt and cobbles, fine to coarse grained, brown, moist	317.36
	SANDY SILT, with gravel, trace cobbles, fine to coarse grained, light brown, moist to dry	314.09



SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
1		75		2.8
2		75		2.4
3		100		2.5
4		100		3.2
5		100		3.1
6		100		4.9
7		100		4.3
8		100		4.3

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW2-20
DATE COMPLETED: 20 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
7.5								
8.0	- wet at 7.92m BGS		Bentonite Chips					
8.5								
9.0								
9.5				9		100		1.3
10.0				10		100		3.1
10.5			Sand Pack Well Screen					
11.0				11		60		1.7
11.5								
12.0				12		60		2.2
	END OF BOREHOLE @ 12.19m BGS	307.31						
12.5	Note: PID readings are reflective of background conditions							
13.0								
13.5								

WELL DETAILS
Screened interval:
310.35 to 307.31mAMSL
9.14 to 12.19m BGS
Length: 3.05m
Diameter: 51mm
Slot Size: #10
Material: PVC
Sand Pack:
310.96 to 307.31mAMSL
8.53 to 12.19m BGS
Material: Silica

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW3-20
DATE COMPLETED: 20 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

NORTHING: 4811158.33 — TOP OF RISER 323.19
EASTING: 560405.03 — GROUND SURFACE 322.50

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	MONITOR INSTALLATION	SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
	TOPSOIL, sand, silt, with gravel, fine to medium grained, brown, moist, rootlets	322.20						
0.5	SANDY SILT, with gravel, trace cobbles, fine to medium grained, brown, moist			1		90		1.3
1.0				2		90		1.4
1.5			145mm Ø Borehole					
2.0				3		60		2.1
2.5			Bentonite	4		60		2.6
3.0								
3.5				5		60		3.6
4.0								
4.5	- increase in sand and gravel from 4.27 to 4.88m BGS			6		60		3.2
5.0								
5.5				7		60		4.7
	CLAYEY SILT, with sand, trace gravel, hard, semi-plastic, grey-brown, moist	316.71						
6.0			Bentonite Chips					
6.5				8				8.6

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

HOLE DESIGNATION: MW3-20
DATE COMPLETED: 20 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	MONITOR INSTALLATION	SAMPLE NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
7.5				9		100		11.3
8.0				10		100		12.9
8.5	SILTY SAND, with gravel, fine to coarse grained, brown, moist	313.97		11		100		11.1
9.0	SILT, and clay, with sand and gravel, hard, low plasticity, grey-brown, moist	313.36						
9.5				12		100		5.8
10.0				13		100		5.5
10.5			Sand Pack					
11.0				14		100		5.9
11.5				15		100		7.2
12.0								
12.5				16		100		6.0
13.0			Well Screen	17		100		4.6
13.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL ▼ November 23, 2020

File: C:\USERS\CACHILDS\DESKTOP\11210029-MI.GPJ Library File: GHD_ENVIRO_V02.GLB Report: OVERBURDEN LOG Date: 9/12/20

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: HIA
PROJECT NUMBER: 11210029
CLIENT: 2374868 Ontario Inc.
LOCATION: Cambridge, Ontario

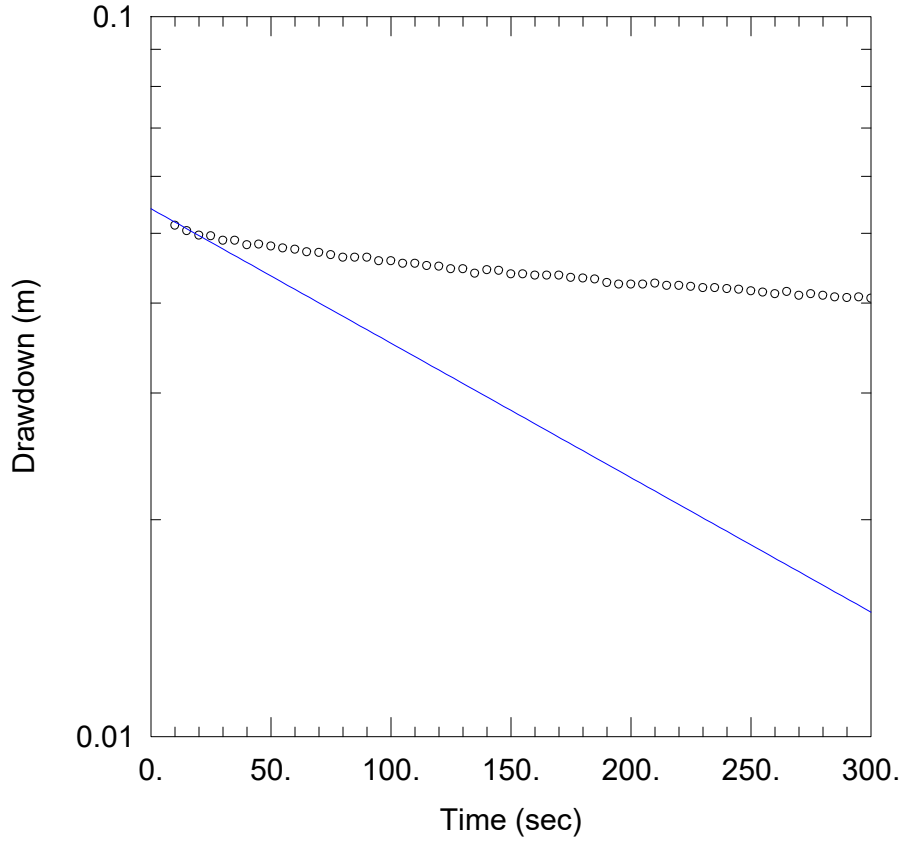
HOLE DESIGNATION: MW3-20
DATE COMPLETED: 20 November 2020
DRILLING METHOD: Sonic
FIELD PERSONNEL: M. Waldick

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. BGS	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
14.5			WELL DETAILS Screened interval: 311.23 to 308.18mAMSL 11.28 to 14.33m BGS Length: 3.05m Diameter: 51mm Slot Size: #10 Material: PVC Sand Pack: 315.95 to 308.18mAMSL 6.55 to 14.33m BGS Material: Silica	18		100		7.7
15.0				19		100		1.2
15.5	END OF BOREHOLE @ 15.24m BGS Note: PID readings are reflective of background conditions	307.26						
16.0								
16.5								
17.0								
17.5								
18.0								
18.5								
19.0								
19.5								
20.0								
20.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STATIC WATER LEVEL November 23, 2020

Appendix C
Hydraulic Conductivity Plots



FALLING HEAD 1

Data Set: C:\...\MW1-20-Falling1.aqt
Date: 12/15/20 Time: 10:54:21

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW1-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0001332 cm/sec
y0 = 0.05409 m

AQUIFER DATA

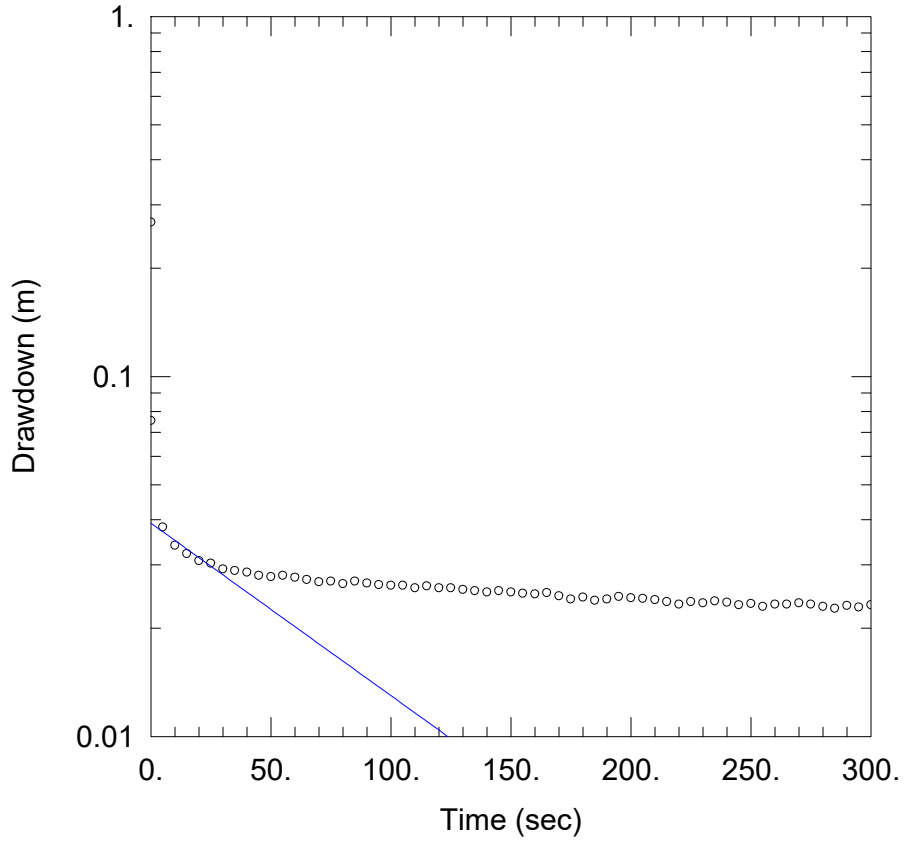
Saturated Thickness: 2.92 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW1-20)

Initial Displacement: 0.3432 m
Total Well Penetration Depth: 3.05 m
Casing Radius: 0.0254 m

Static Water Column Height: 2.92 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



RISING HEAD 1

Data Set: C:\...\MW1-20-Rising1.aqt
Date: 12/15/20 Time: 10:50:02

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW1-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0003417 cm/sec
y0 = 0.03914 m

AQUIFER DATA

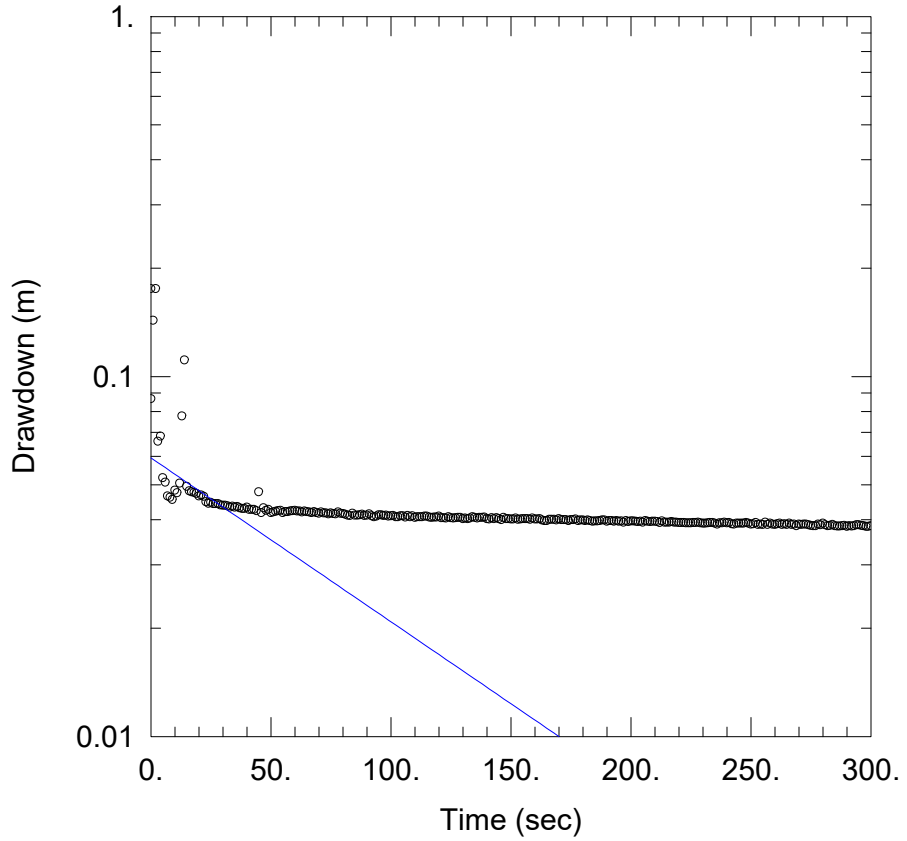
Saturated Thickness: 2.92 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW1-20)

Initial Displacement: 0.2683 m
Total Well Penetration Depth: 3.05 m
Casing Radius: 0.0254 m

Static Water Column Height: 2.92 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



RISING HEAD 2

Data Set: C:\...\MW1-20-Rising2.aqt
Date: 12/15/20 Time: 10:51:25

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW1-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0003247 cm/sec
y0 = 0.05943 m

AQUIFER DATA

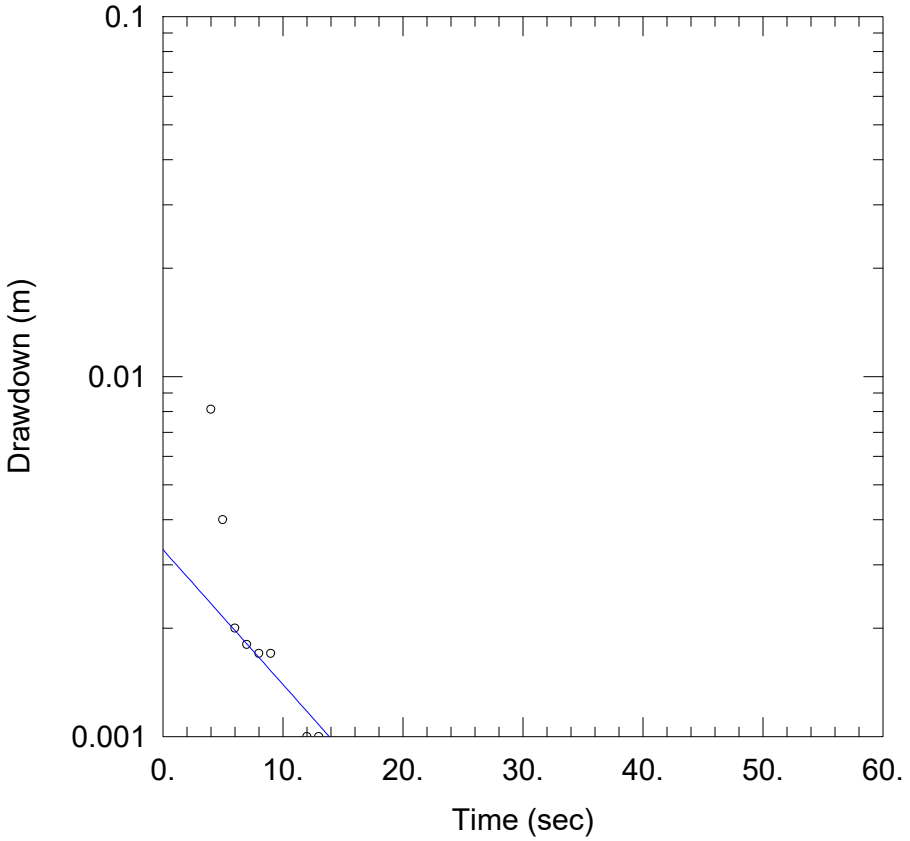
Saturated Thickness: 2.92 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW1-20)

Initial Displacement: 0.1754 m
Total Well Penetration Depth: 3.05 m
Casing Radius: 0.0254 m

Static Water Column Height: 2.92 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



FALLING HEAD 1

Data Set: C:\...\MW2-20-Falling1.aqt
Date: 12/15/20 Time: 10:40:33

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW2-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.003037 cm/sec
y0 = 0.003305 m

AQUIFER DATA

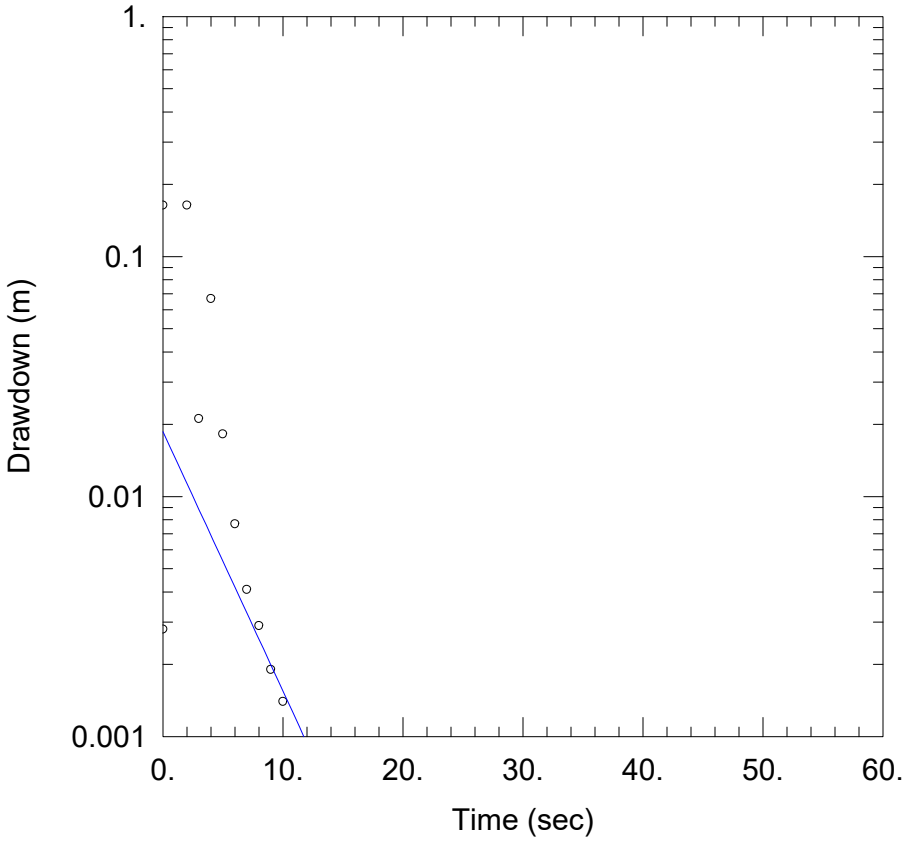
Saturated Thickness: 4.42 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW2-20)

Initial Displacement: 0.2903 m
Total Well Penetration Depth: 4.42 m
Casing Radius: 0.0254 m

Static Water Column Height: 4.42 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



RISING HEAD 1

Data Set: C:\...\MW2-20-Rising1.aqt
Date: 12/15/20 Time: 10:46:21

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW2-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.008762 cm/sec
y0 = 0.01864 m

AQUIFER DATA

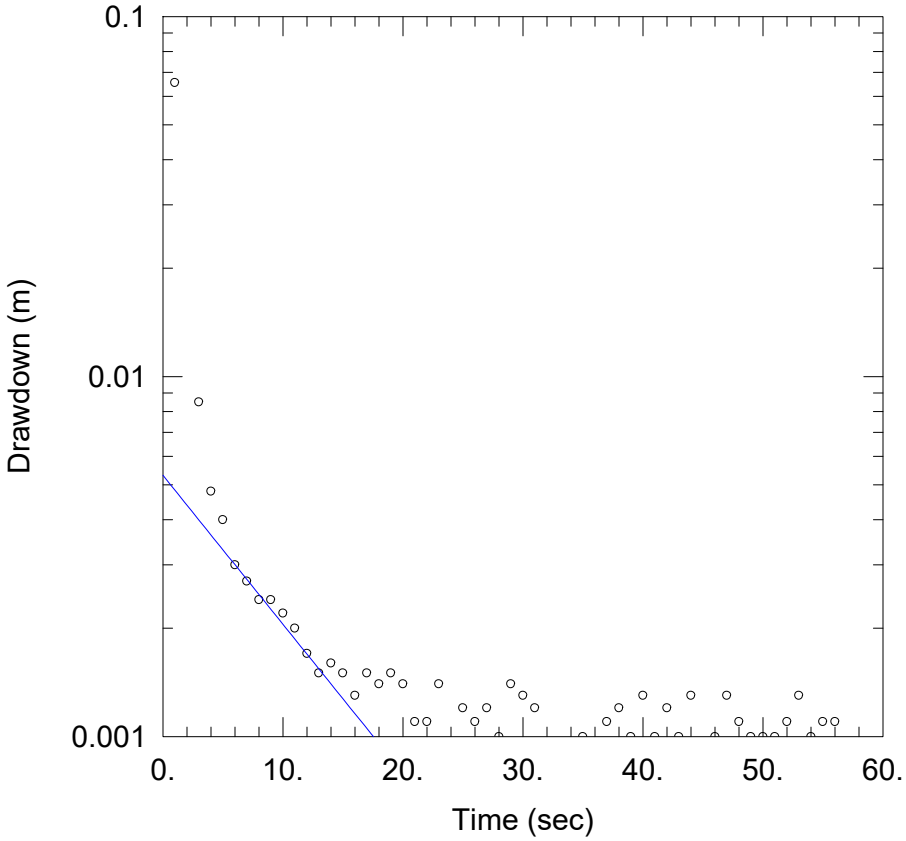
Saturated Thickness: 4.42 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW2-20)

Initial Displacement: 0.1637 m
Total Well Penetration Depth: 4.42 m
Casing Radius: 0.0254 m

Static Water Column Height: 4.42 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



FALLING HEAD 2

Data Set: C:\...\MW2-20-Falling2.aqt
Date: 12/15/20 Time: 10:44:11

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW2-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.003352 cm/sec
y0 = 0.005314 m

AQUIFER DATA

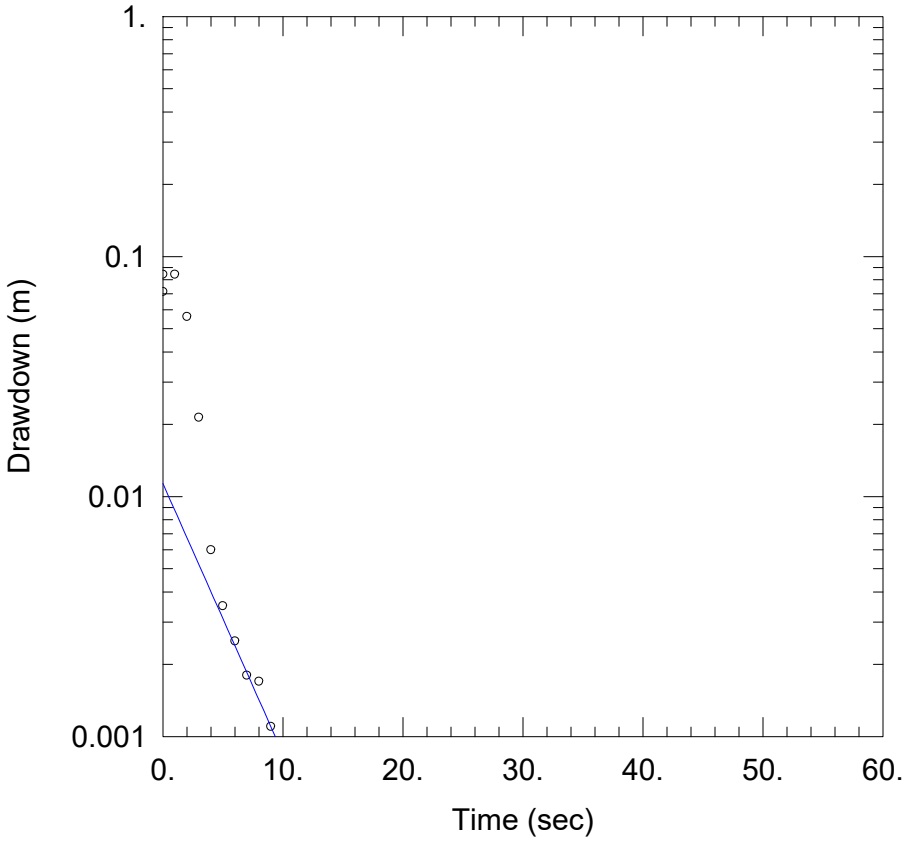
Saturated Thickness: 4.42 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW2-20)

Initial Displacement: 0.5797 m
Total Well Penetration Depth: 4.42 m
Casing Radius: 0.0254 m

Static Water Column Height: 4.42 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



RISING HEAD 2

Data Set: C:\...\MW2-20-Rising2.aqt
Date: 12/15/20 Time: 10:47:38

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW2-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.00913 cm/sec
y0 = 0.01132 m

AQUIFER DATA

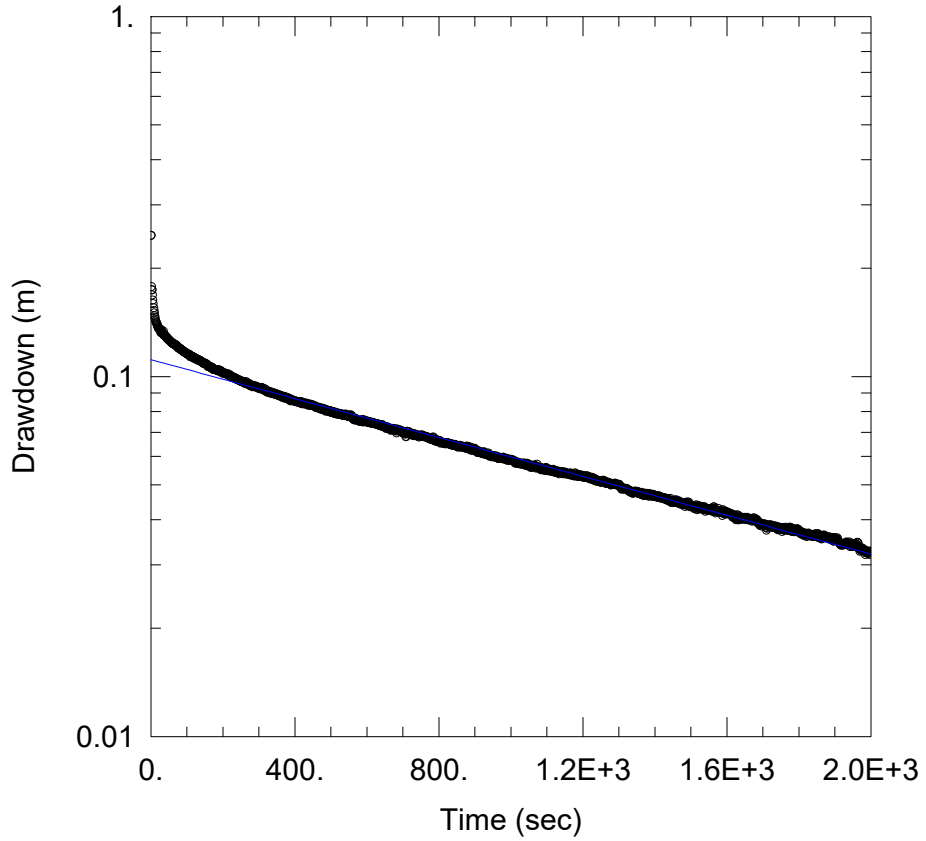
Saturated Thickness: 4.42 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW2-20)

Initial Displacement: 0.0843 m
Total Well Penetration Depth: 4.42 m
Casing Radius: 0.0254 m

Static Water Column Height: 4.42 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



FALLING HEAD 1

Data Set: C:\...\MW3-20-Falling1.aqt
Date: 12/15/20 Time: 10:29:03

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW3-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

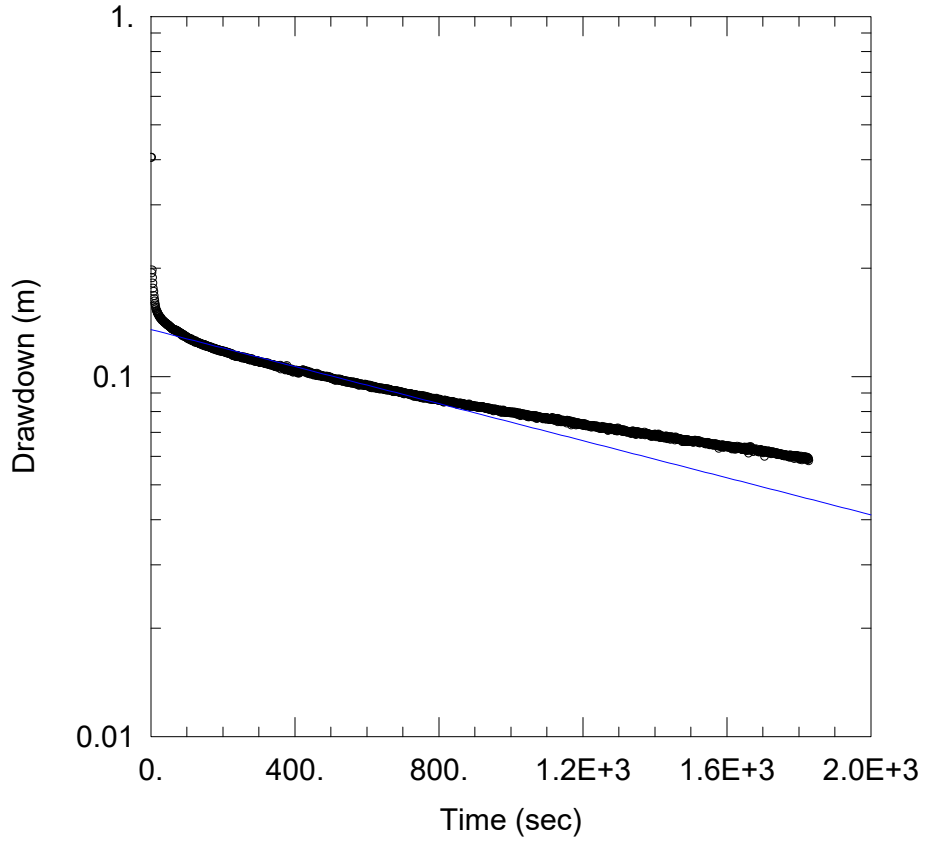
K = 2.484E-5 cm/sec
y0 = 0.1113 m

AQUIFER DATA

Saturated Thickness: 9.2 m
Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW3-20)

Initial Displacement: 0.2464 m
Total Well Penetration Depth: 9.2 m
Casing Radius: 0.0254 m
Static Water Column Height: 9.2 m
Screen Length: 3.05 m
Well Radius: 0.0762 m



RISING HEAD 1

Data Set: C:\...\MW3-20-Rising1.aqt
Date: 12/15/20 Time: 10:29:52

PROJECT INFORMATION

Company: GHD
Client: 2374868 Ontario Inc.
Project: 11210029
Location: Cambridge, Ontario
Test Well: MW3-20
Test Date: December 1, 2020

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 2.368E-5 cm/sec
y0 = 0.1351 m

AQUIFER DATA

Saturated Thickness: 9.2 m

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW3-20)

Initial Displacement: 0.4056 m
Total Well Penetration Depth: 9.2 m
Casing Radius: 0.0254 m

Static Water Column Height: 9.2 m
Screen Length: 3.05 m
Well Radius: 0.0762 m