

# Water Supply and Nitrate Loading Assessment Audrey Meadows Development Concession 8, Part Lots 17 to 19 Puslinch Township Wellington County

## **Prepared For:**

Audrey Meadows Ltd.

## **Provided To:**

Stovel and Associates Inc. 651 Orangeville Road Fergus, Ontario N1M 1T9

## **Prepared By:**

Andrew Pentney, P.Geo. Groundwater Science Corp.

July 2025

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#### 1.0 INTRODUCTION

This report presents the results of a hydrogeologic assessment completed on behalf of Audrey Meadows Ltd. for the proposed Audrey Meadows residential development. The development lands in question are within Concession 8, Part Lots 17 to 19, Township of Puslinch. The site location is shown on **Figure 1**.

#### 1.1 BACKGROUND AND OBJECTIVES

The development lands are immediately adjacent to, and north of, the existing Audrey Meadows subdivision. The existing subdivision consists of 49 residential lots within an approximate 27 hectare (ha) area. Lot sizes vary from approximately 0.36 to 0.62 ha. Residential house construction and occupation began in 2009, and continues to date. Currently there are 46 completed residences, each with an individual water well and tertiary treatment septic system.

The proposal extends the existing subdivision northward onto the remaining land parcel, which is approximately 11.8 ha in size in total. The development proposal and final lot fabric has not yet been determined, however for the purpose of this assessment it is assumed that the proposal could include up to 28 new lots. The continued development would also use individual water supply wells and tertiary treatment septic systems at each new lot.

This water supply and nitrate loading assessment was completed according to Ontario Ministry of the Environment, Conservation and Parks Procedure D-5-5: Technical Guideline for Private Wells: Water Supply Assessment (August 1996), and, Procedure D-5-4: Technical Guideline for Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment (August 1996). This assessment expands upon a preliminary letter report provided on December 20, 2021 (*Audrey Meadows Subdivision Nitrate Impact Analysis and Water Supply Assessment*, Groundwater Science Corp.) for this development.

## 2.0 METHODOLOGY

This assessment included a background information review to characterize the local setting and the use of standard field and analysis methods for the site characterization and impact assessment.

### 2.1 Information Review

Regional to local geologic and groundwater information is available from published information, reports and mapping. Site specific information is available from the geotechnical assessment completed for the development and from assessments completed regarding the existing development lands.

As part of this study the following information sources were used:

- 1) CMT Engineering Inc., June 25, 2025; Geotechnical Investigation, Proposed Audrey Meadows Estates Subdivision Phase 2, Victoria Street South, Puslinch, Ontario.
- 2) Groundwater Science Corp., December 20, 2021; Audrey Meadows Subdivision Nitrate Impact Analysis and Water Supply Assessment.

- 3) Stovel and Associates Inc., 2023; Part of Lot 12, Concession 7, Belwood, Wellington County, Environmental Impact Study (EIS).
- 4) Hydrogeology Consulting Services (HCS), April 9, 2021: 2019-2020 Annual Report, Groundwater And Surface Water Monitoring Program, Audrey Meadows Subdivision, Lot 18 & 19, Concession 8, Township of Puslinch, Ontario.
- 5) Grand River Conservation Authority (GRCA), Grand River Information Network (GRIN) interactive mapping application, available at: https://www.grandriver.ca/en/our-watershed/Maps-and-data.aspx.
- 6) Ministry of the Environment Conservation and Parks (MECP) published Water Well Records, available at: https://www.ontario.ca/page/map-well-records.
- 7) Ministry of the Environment Conservation and Parks (MECP) Source Protection Atlas interactive mapping application, available at: https://www.ontario.ca/page/source-protection.
- 8) Ontario Geological Survey OGSEarth published geological mapping (KML files viewed on Google Earth); available online at: http://www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth
- 9) Geographic Data Information obtained through Land Information Ontario (LIO) and licensed under the Open Government Licence Ontario; available online at: https://geohub.lio.gov.on.ca/

Additional general references used are noted in the text of this report.

## 2.2 FIELD WORK

As part of this study field work was undertaken to assess water supply potential at the site. The field work undertaken included:

- drilling 3 test wells (completed by Jim Wilson Well Drilling as arranged by Audrey Meadows Ltd.);
- 6 hr pump tests at each of the 3 test wells (completed by Jim Wilson Well Drilling as arranged by Audrey Meadows Ltd.);
- water level monitoring at the 3 test wells, 2 existing subdivision wells and 3 on-site shallow overburden monitors; and,
- water quality sampling at the 3 test wells at the completion of pump testing.

The specific field methodologies used are summarized in more detail in each of the respective sections of this report.

## 3.0 INFORMATION REVIEW

#### 3.1 SITE TOPOGRAPHY AND DRAINAGE

According to topographic surveys completed at the site (see Triton Engineering *Existing Elevation Plan*), topography within the subject development area varies from a high of approximately 340.7 to 343.5 metres above sea level (mASL) along a north-south trending knoll/ridge system bisecting the property, to 329.3 mASL near the south corner of the proposed development area.

## 3.2 SURFICIAL GEOLOGY

The study site is located at the southern edge of the Paris Moraine, as defined by available Quaternary (geology) mapping. Surficial soils are described as (Wentworth) Till (stone-poor, sandy silt to silty sand-textured till on Paleozoic terrain). Additional surficial soils information is provided within the geotechnical report.

## 3.3 GEOTECHNICAL STUDY RESULTS

The geotechnical report, completed by CMT Engineering, included 34 shallow (overburden) boreholes, 17 of which were completed as monitoring wells. The boreholes ranged from 1.9 to 7.6 m in depth. The CMT borehole and monitor location map, and borehole logs, are included in **Appendix A**.

The drilling results indicate that the shallow overburden consists primarily of silty sand to silty sand and gravel, with layers of sand to sand and gravel. Clayey silt till was encountered at depth. Consistent with the existing subdivision area, and as reported by local water well records, the till unit extends to bedrock.

#### 3.4 BEDROCK GEOLOGY

The bedrock subcropping this area is reported to consist of the dolostone of the Guelph Formation. The Guelph Formation is part of a thick, regionally extensive, aquifer system (formerly characterized as the Guelph-Amabel aquifer) that includes underlying bedrock units generally consisting of the Eramosa Formation, Goat Island Formation and Gasport Formation (as currently identified). The Eramosa formation is thought to form a regional aquitard layer that separates the overlying Guelph Formation aquifer and the underlying Goat Island/Gasport Formation aquifers.

This aquifer system is utilized for private water supply within the existing subdivision and surrounding rural residential/farm properties.

#### 3.5 WELL RECORD INFORMATION

As part of the December 2021 assessment reported water well records for all 51 properties between the site and Mill Creek (all downgradient properties including the existing 49 lot subdivision, plus single lots at 4550 and 4506 Victoria Road South), were reviewed.

As shown on **Figure 2**, a total of 44 records were correlated to specific addresses using well record location maps, noted subdivision plan lot, or, reported 911 address numbers. Within the subdivision 3 lots have not yet been developed. One lot (80 Old Ruby Lane) corresponds to an original farm house currently used as a site office. The office is supplied by a drilled well (reported to date from the 1960's), however no well record is available.

Well records could also not be located for two additional residences (43 Old Ruby Lane, and 91 Old Ruby Lane). The most recent well drilled within the subdivision is located at 71 Old Ruby Lane, a copy of that well record is included in **Appendix B**.

According to the well record information, all of the 44 wells reviewed were completed in the bedrock aquifer at depths between 11.6 and 43.6 m. At almost all locations the predominant overburden material was described as including "clay" (assumed to be representative of Till). Sand and gravel is occasionally noted over bedrock, however at those locations a significant thickness (5.5 m or more) of clay till occurs at surface.

The well records indicate that the bedrock wells are highly productive, with reported pumping rates from 38 to 114 Litres per minute and limited drawdown (maximum reported drawdown 4.3 m however over 90% of wells having less than 1 m drawdown). Calculated specific capacities are all above 12 L/min/m and commonly range above 90 L/min/m.

In general, the water well record review indicates that the main water supply source in this area is the bedrock aquifer. The bedrock in this area is confined, overlain by clayey overburden that is generally over 10 m, and may be up to 42 m, thick. Since about 1955 reported static levels have remained within a relatively consistent range, indicating no long-term decline in potentiometric levels within the bedrock system.

## 3.6 Source Protection Considerations

There is <u>no</u> Well Head Protection Area or Intake Protection Zone identified at the site or in the vicinity of the proposed development. Select Source Protection figures are included in **Appendix C** for reference.

The site is mapped as part of a Significant Groundwater Recharge area. However, given the presence of till at depth, actual recharge contribution to regional groundwater flow systems (i.e. that support municipal water taking at distance) will likely be marginal.

The site is identified within an area of low intrinsic groundwater vulnerability. The site is also not within any identified Wellhead Water Quantity Zone.

#### 4.0 FIELD WORK

The field work undertaken corresponds to the work plan as provided to Harden Environmental Services Limited, acting on behalf of the Township of Puslinch, in an email dated June 10, 2025. A copy of the email chain indicating agreement with the well testing scope is included in **Appendix D**.

## 4.1 OBSERVATION WELL MONITORING

Prior to the pump testing program several of the CMT Engineering geotechnical monitoring wells were located and assessed for monitoring purposes. Many of the shallow geotechnical wells were "dry", however 3 wells (BH2, BH22 and BH24) which intercepted the water table in the area of the new test wells were chosen for monitoring. The location of the 3 overburden wells monitored is shown on **Figure 3**. Well logs are included in **Appendix A**.

In addition, 2 private bedrock water supply wells within the existing subdivision were made available for pump test monitoring. The wells are located at 9 Old Ruby Lane (WWR#7285585) referenced as the Lot 1 Well, and, 71 Old Ruby Lane (Tag#A409199), referenced as the Lot 23 Well. The respective well records for the 2 bedrock observation wells are included in **Appendix B**. The locations are shown on **Figure 3**.

Water level monitoring at observation wells included continuous measurements using dataloggers (5 minute intervals), and manual measurements at deployment and removal.

#### 4.2 TEST WELL DRILLING

As per Procedure D-5-5, based on the development area (11.8 ha) a total of 3 domestic water supply test wells were drilled on the property in June 2025 by Jim Wilson Water Well Drilling Ltd. These wells were then pump tested by Jim Wilson Water Well Drilling Ltd., as described in **Section 4.3**. The test well locations are shown on **Figure 3**. Copies of the water well records for each well are included in **Appendix B**.

The wells were drilled using the air rotary method and constructed with nominal 15 cm (6 inch) diameter casings set into the upper Guelph Formation bedrock. This is consistent with the current Township of Puslinch request (per Harden Environmental Services Limited) that open hole well construction does not extend over the Eramosa Formation (aquitard) and create a vertical connection between the Guelph Formation aquifer and the Goat Island/Gasport Formation aquifer. The test well drilling results and construction details are summarized in **Table 1**.

XX7 11 //	T4			Depth (m	BGS)		Rate
Well #	Tag#	Static	Bedrock	Casing	Water Found	Total	(LPM)
TW1	A429779	4.88	26.82	27.13	27.43	27.43	56.8
TW2	A429780	10.06	27.43	29.87	30.48	30.48	56.8
TW3	A429781	9.14	28.96	34.14	35.66	35.66	56.8
mBGS = metres below ground surface LPM = Litres Per Minute							

**Table 1: Test Well Drilling Summary** 

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The overburden encountered at the test well drilling locations was described as consisting primarily of clay, with some sand/gravel/stones present (i.e. till). Bedrock was encountered at depths between 27 and 29 m, indicating a thick till sequence occurs over the bedrock aquifer. Static levels are above the bedrock surface, indicating the aquifer is a confined system at the site.

The drilling results indicate that the bedrock aquifer system at the site is suitable for private wells, is relatively "protected" by the confining overburden sequence and provides sufficient water supply for typical residential use.

## 4.3 PUMPING TEST PROGRAM

The 3 bedrock test wells were pump tested by Jim Wilson Water Well Drilling Ltd. between July 7<sup>th</sup> and 14<sup>th</sup>, 2025 (testing period).

Each well was pumped for 6 hours (per Jim Wilson Water Well Drilling Ltd) using a submersible pump installed for that purpose at rates that were based on well capacity determined during the airlift development process. Pumping rates were measured using an inline flow meter. Water taking volumes remained below 50,000 Litres per day.

Pumped water was discharged to surface, into either roadside ditches along Old Ruby Lane or Victoria Road, or within the same ownership parcel outside of the development area (i.e. at distance from each well). We note that no recirculation effects were noted in the observed response, and none would be expected given the thick (27 m or more) till layer over bedrock at the site.

I	he pumpin	g test	program	is summa	arized in	lable	2.
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Well	Rate (LPM)	Test Date	Test Start	Note
TW1	60.6	July 9, 2025	9:10 am	water quality sample at 2:30 pm
TW2	60.6	July 11, 2025	830 am	water quality sample at 1:00 pm
TW3	68.1	July 14, 2025	8:00 am	water quality sample at 12:00 pm

**Table 2: Pump Test Summary** 

Dataloggers were installed in the pumping wells on July 7<sup>th</sup>, 2 days prior to the first test. The dataloggers were removed on July 15<sup>th</sup>, 1 day after the last test.

Dataloggers were installed in the (private water well) bedrock observation wells on the day of the first test and removed on July 15<sup>th</sup>.

Dataloggers were installed in the on-site overburden monitoring wells on July 7<sup>th</sup> and removed on July 15<sup>th</sup>.

The water level monitoring results are summarized as a series of hydrographs for both test and observation wells in **Appendix E**. The pump test results are further discussed in **Section 5**.

Water samples were obtained from the end of the discharge hose near the end of each well test. The samples were collected in bottles provided by the laboratory (ALS Labs, Waterloo) and were submitted for analysis on the same day. The samples were analyzed

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for the ALS potability package. The metals samples were unfiltered and therefore represent total metals. The water quality analysis, including relevant results compiled within a summary table and respective laboratory reports, can be found in **Appendix F**.

## 5.0 DATA INTERPRETATION

## 5.1 PUMP TEST ANALYSIS

The total drawdown for each test, as observed at monitored locations, is summarized in **Table 3**.

Monitored	Well	Drawdown R	Response (m) to P	ump Test At:
Location	Type	TW1	TW2	TW3
TW1	bedrock	0	0	0
TW2	bedrock	0	0	0
TW3	bedrock	0	0	0
Lot 1 Well	bedrock	0	0	0
Lot 23 Well	bedrock	0	0	0
BH2	overburden	0	0	0
BH22	overburden	0	0	0
BH24	overburden	0	0	0

**Table 3: Drawdown Summary** 

As shown on the hydrographs and summarized above, no drawdown was observed at either the pumping wells or the observation wells. Therefore, no drawdown or recovery analysis was completed. The testing confirms the high water supply capacity of the bedrock system at the site, consistent with the successful development of 44+ private water supply wells within the existing development area and surrounding lands.

## 5.2 BEDROCK (WATER SUPPLY) AQUIFER WATER QUALITY

Water quality sampling at the test wells provides a detailed assessment of the bedrock aquifer water quality in this area. In general, the water quality is considered good with almost all health related drinking water criteria met. The water is somewhat hard, however has very low nitrate concentrations (in the range of 1 mg/L).

The exceptions relate to bacteriological test results, which show elevated total coliforms at each well, and a positive E.Coli result at TW1. We note that given the pumping and sampling configuration (well development limited to sand-free state and samples obtained at the end of the discharge hose), the presence of some bacteria at this stage is not unusual. We recommend: typical required pump installation practices be utilized, including well chlorination and purge at the time of installation; continued well pumping and development after pumping equipment is installed; and, bacteriological sampling (free Public Heath Unit potability test) be completed by the homeowner prior to use and regularly afterward (per standard recommended practice).

Overall water quality is typical for bedrock aquifers in this area of Southern Ontario.

## 6.0 IMPACT ASSESSMENT

In order to address initial development requirements, and to show the feasibility of the proposal, this impact assessment is intended to address MECP Procedure D-5-5: Technical Guideline for Private Wells: Water Supply Assessment (August 1996); and, Procedure D-5-4: Technical Guideline for Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment (August 1996). In the context of the proposed development Procedure D-5-4 is essentially a septic system nitrate loading assessment.

#### 6.1 WATER SUPPLY

We note that the pumping tests were completed for extended periods at rates well above typical expected residential water taking, therefore are a very conservative assessment of potential water supply interference. Procedure D-5-5 specifies a minimum test rate of 13.7 L/min, and, a test rate of 3.75 L/min/person within the expected household. The procedure states number of persons is estimated as the number of bedrooms plus one. Assuming the proposed residential dwellings have 4 bedrooms a test rate of 18.75 L/min would be required. The pumping test rates at the 2025 test wells exceeded the MECP requirements.

As indicated by **Table 3**, the pumping tests indicate that no significant interference can be expected due to the proposed water supply wells within the development, either on-site at newly constructed wells, or off-site at existing wells in the area.

The test well water quality sampling results indicate that the bedrock aquifer in this area can provide good potable water to the development. The thick till aquitard system in the area of the site protects the bedrock aquifer from surficial influences.

The existing development is a model of the water supply capability and sustainability of the bedrock aquifer in this area.

## **6.2** NITRATE LOADING

As part of the original (December 2021) impact assessment the development was assumed to consist of 22 lots. The current proposal may include more lots (up to 28), therefore the nitrate loading calculation was revised, as discussed below.

MECP Procedure D-5-4 (*Technical Guideline For Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment*, August 1996) indicates that for the proposed development a 3 step process is appropriate, consisting generally of:

- 1. Determination of lot size.
- 2. System isolation identification.
- 3. Contaminant attenuation (risk) assessment.

We note that this is a risk assessment, and not a predictor of actual nitrate concentrations in the groundwater system. This type of methodology acknowledges that it does not account for all dilution and denitrification processes, and therefore we can consider the method as an approximation that allows for relative risk to be determined. If the nitrate loading calculation has a result of 10 mg/L (drinking water limit) or less, the "risk" of associated environmental impact to groundwater systems associated with the proposed development is considered relatively low.

#### Lot Size

Given that the total development area is 11.8 ha, and up to 28 lots may be included, we can assume the proposed lots are less than 1 ha. Therefore, system isolation should be considered as the next "step" in the assessment process.

#### **System Isolation**

System isolation can be considered in the context of the hydrogeologic setting.

The shallow water table system is the primary "receiver" for septic system impacts. The water table system flows southward, below the existing subdivision, and is expected to discharge to the surface water system.

Overall vertical flow through the till layer to the bedrock system will be limited due to the geologic setting. The till sequence will promote horizontal flow within any shallow (water table) flow systems associated with either sand/gravel or weathered till horizons at, or near surface.

Each house between the proposed development and Mill Creek to the south (e.g. within the existing subdivision and residential lots on Victoria Road South) is reportedly serviced by a bedrock well. Based on the water well information review, the primary water source, and recommended water supply aquifer for this development, is the confined bedrock system. The bedrock aquifer is protected by the overlying till sequence. Therefore, the water supply aquifer in use in the area, and proposed to be used at the site, is relatively isolated from septic system impacts.

The private well water quality sampling, as outlined in the December 2021 report and completed for this assessment, confirms that the bedrock aquifer is relatively isolated from nitrate loading impacts associated with both local agricultural loading and local septic system use.

Based on system isolation considerations, and assuming well construction meets applicable provincial regulations and standards, local bedrock water supplies are interpreted to be at relatively low "risk" from septic loading impacts within the overburden system due to the proposed development. However, for completeness a contaminant attenuation assessment is also provided.

#### Contaminant Attenuation Assessment

The following nitrate loading calculation (predictive assessment) is provided as part of the risk assessment. It is our understanding that tertiary treatment septic systems are in use within the existing subdivision and are proposed as part of this development. As noted above, the shallow water table system is the primary receptor of septic loading impacts, however consideration is also given to any potential vertical migration to the deeper bedrock aquifer system.

Based on the test well sampling results, the bedrock system at the site has a baseline (background) nitrate concentration of approximately 1 mg/L. As noted in the December 2021 hydrogeological assessment, sampling indicates that the overburden system within the existing developed lands has a baseline nitrate concentration ranging from of approximately <0.1 mg/L to 3.6 mg/L. The overburden sampling results also indicate the

existing development has decreased nitrate loading as compared to surrounding lands in agricultural use.

Based on 28 (maximum) proposed residential lots, each with individual tertiary treatment septic systems (1,000 L/day) achieving 10 mg/L nitrate concentration at the septic bed, the daily nitrate loading would be expected to be 280,000 mg/day. As shown in the December 2021 assessment existing site recharge is estimated to be 0.357 m/yr over 11.8 ha. Assuming that recharge is maintained post development, and incorporating septic volumes, total site recharge would be 143,414 L/day. Therefore, expected maximum potential nitrate loading due to the proposed development would result in nitrate concentrations of 2.0 mg/L at the water table. Based on baseline nitrate concentrations of 3.6 mg/L in the overburden and 1.0 mg/L in the bedrock aquifer, the overall final nitrate concentration at the site, assuming a maximum 28 potential lots, would be much less than the risk assessment criteria of 10 mg/L. Fewer lots would have a reduced impact potential, and would therefore also meet the risk assessment criteria.

We note that repeating the calculation assuming standard nitrate concentrations of 30 mg/L at each septic bed would result in a nitrate concentration of 5.9 mg/L, which would also satisfy the risk assessment criteria when considering background levels. Therefore, the absolute effectiveness of proposed tertiary treatment systems is not critical at this site, any effective reduction in nitrate concentrations would help mitigate potential for impact. Any reduction in lots (below the 28 lot maximum considered for this calculation) would result in reduced impacts.

The predictive assessment calculations indicate that the proposal satisfies the MECP Procedure D-5-4 septic loading risk assessment criteria. Given that additional dilution and can be expected if groundwater does move vertically to depth, both within the overburden aquitard and due to aquifer flow, potential impact to the bedrock water supply aquifer supplying both existing and planned new wells is projected to be low.

Procedure D-5-4 also indicates that where existing development has occurred monitoring assessments can be considered. While the current site sampling (see December 2021 assessment) does not constitute a full seasonal monitoring assessment, the results do confirm that the existing development does not have a negative impact on either the bedrock water supply aquifer or on the shallow water table flow system between the subdivision and Mill Creek. Based on site water quality monitoring (see December 2021 report), overall nitrate concentrations are observed to decrease from the active agricultural area (proposed development) to the existing subdivision. Therefore, the same can be expected as land use changes from agricultural to residential within the propose development.

#### 7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the hydrogeologic assessment, the proposed Audrey Meadows development site is suitable to support a subdivision of up to 28 lots using private water wells and private sewage systems with tertiary treatment without causing impact to the local groundwater resources or natural heritage features.

The following recommendations are made with respect to the proposed development:

- Tertiary sewage treatment systems are to be provided to residences constructed as part of the proposed development.
- Private water wells servicing the proposed development are recommended to be completed within the bedrock aquifer and constructed according to all applicable regulations. As per Township of Puslinch requests, well drillers should either complete wells in the Guelph Formation, or in the Goat Island/Gasport Formation with the well casing extending through the Eramosa Formation.
- At the time of residential pump installation all applicable regulations should be followed, including well chlorination and purge in order to provide some additional well development.
- Homeowners should complete bacteriological sampling using the free Public Heath
  Unit potability test prior to well use and regularly afterward (per standard
  recommended practice). Public Health Unit instructions issued after sampling
  should be followed.

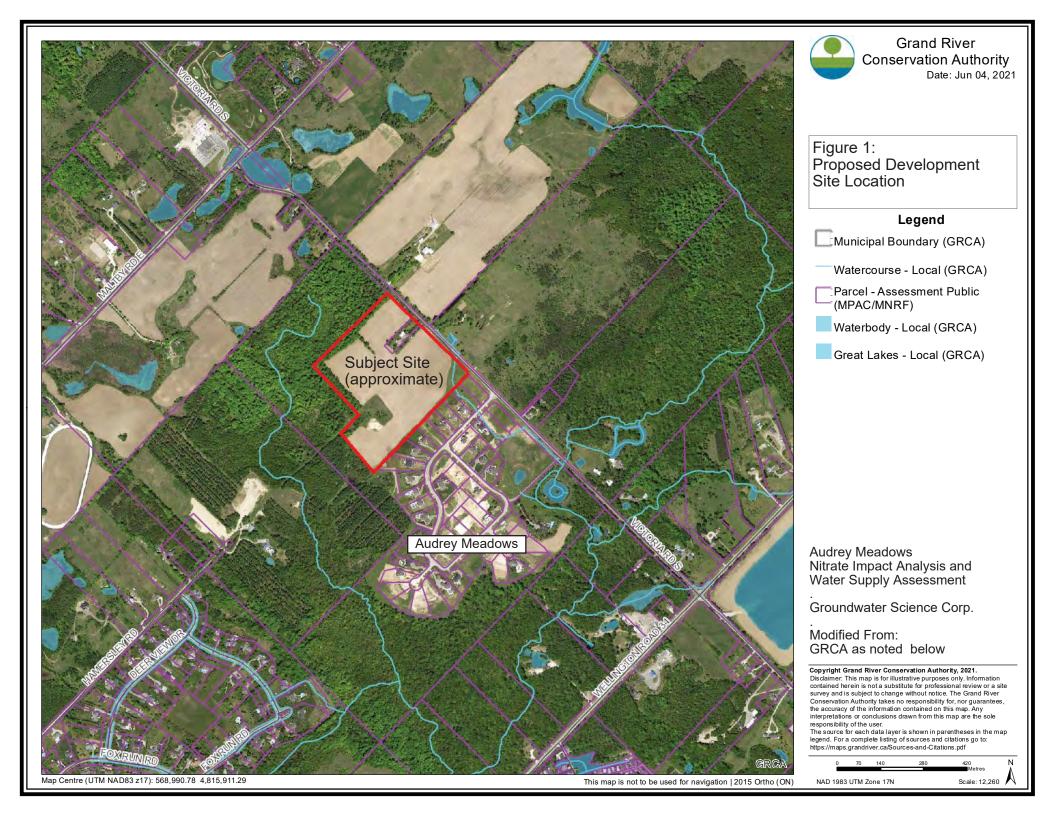
All of which is respectfully submitted,

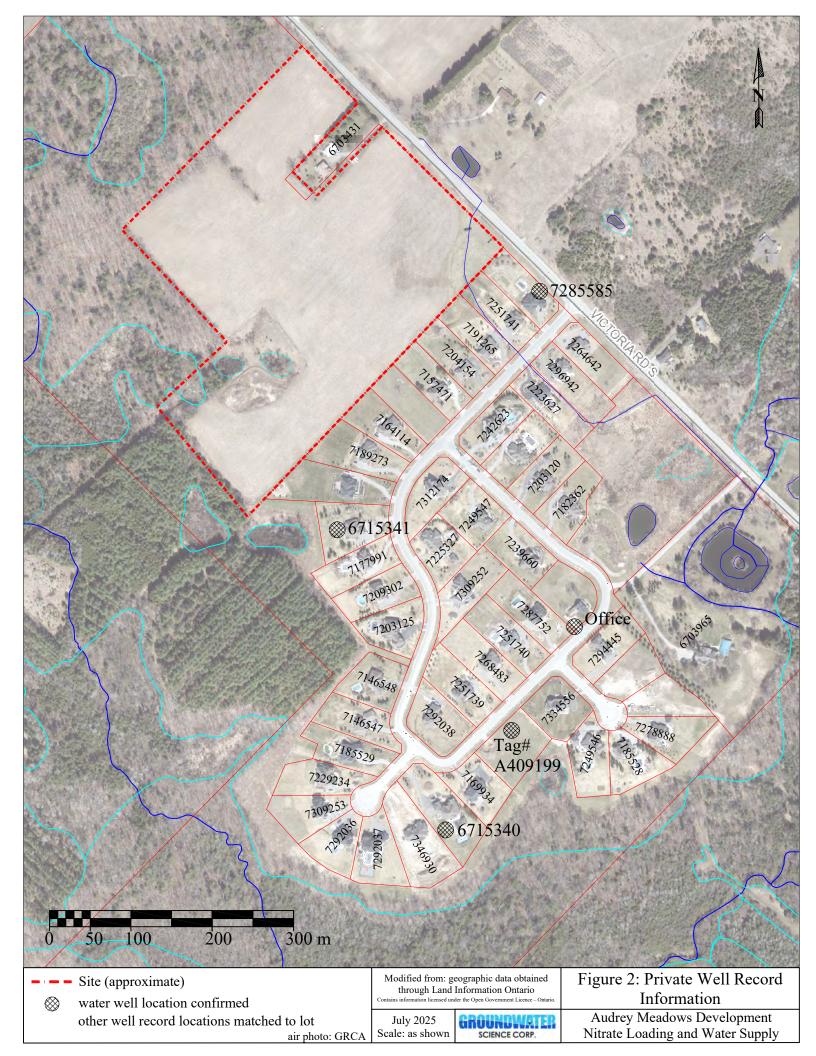


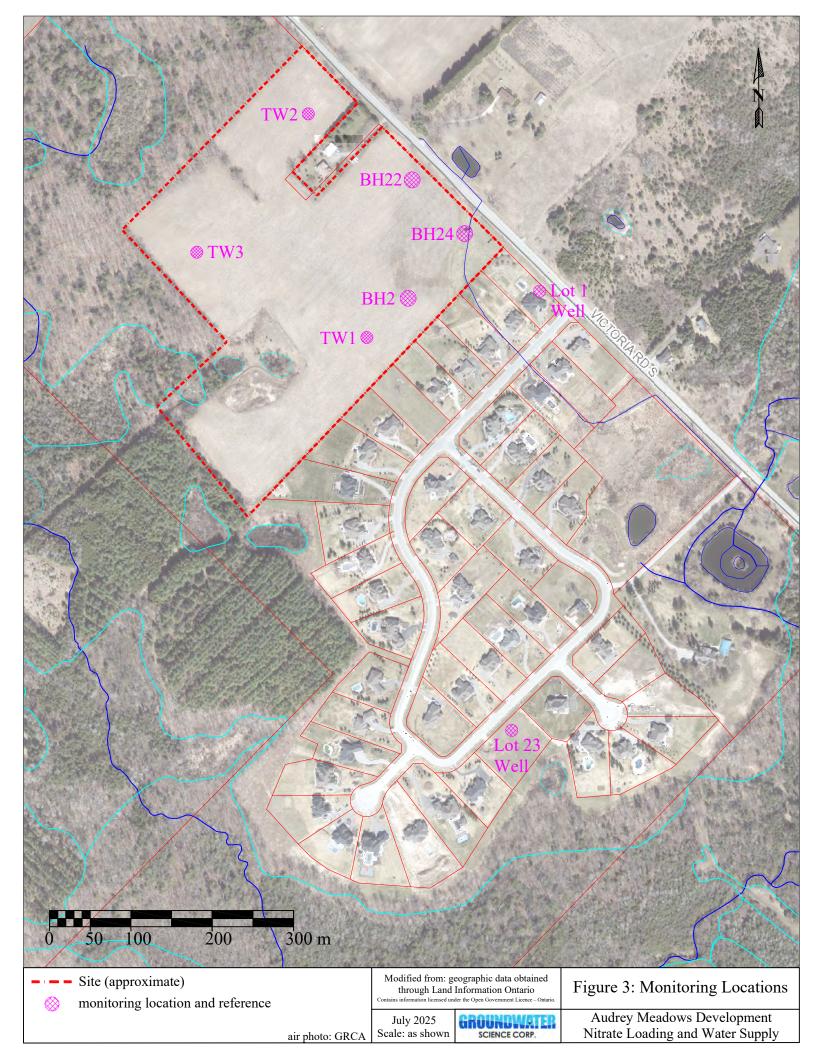
Andrew Pentney, P.Geo. Senior Hydrogeologist Groundwater Science Corp.



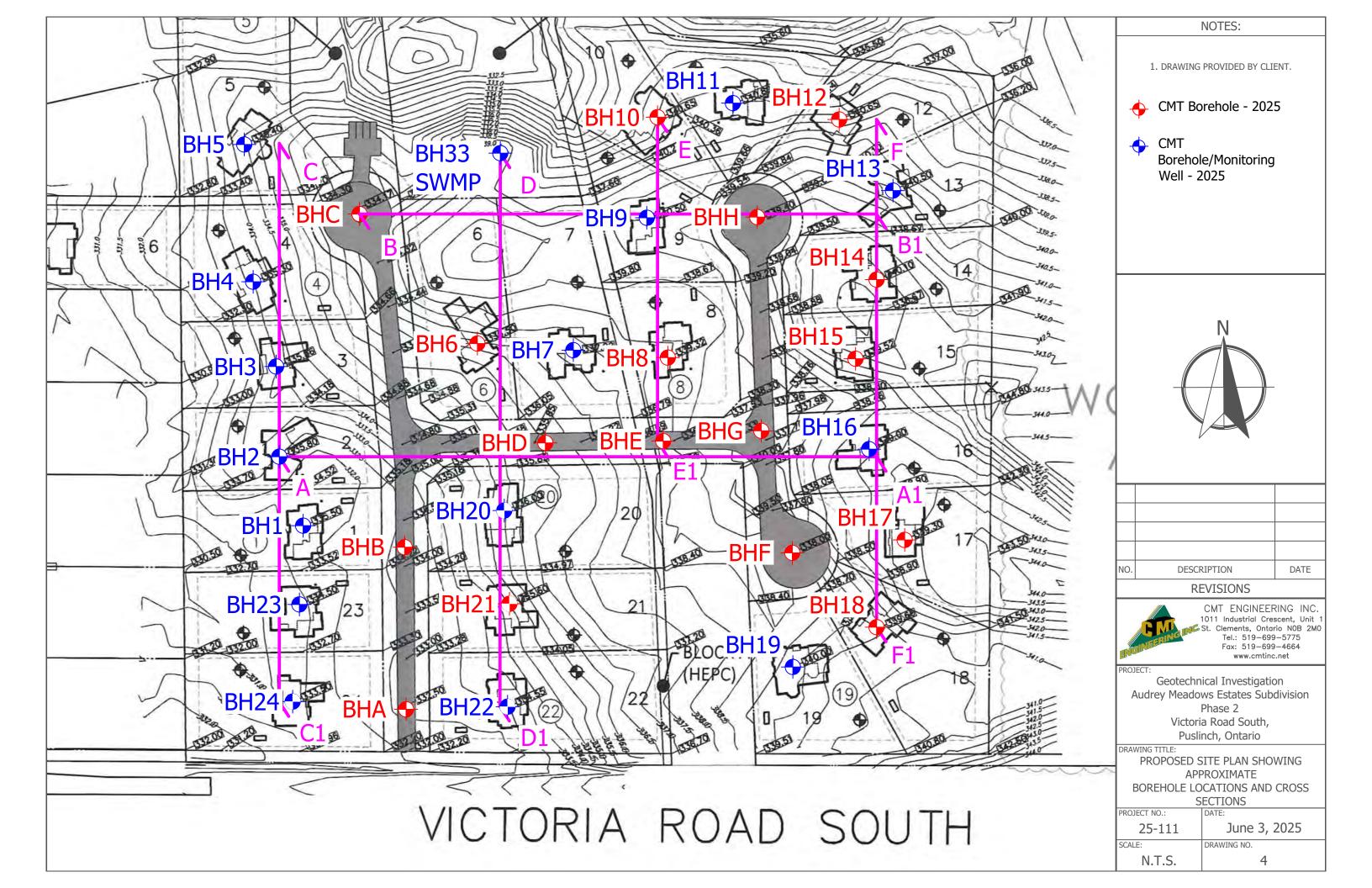








# Appendix A Geotechnical Report Excerpts





DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-16

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH1**

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PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 331.82 m

LOGGED BY: BRF

DRILLING EQUIPMENT: Geoprobe 7822DT SAMPLING METHOD: SPT

DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	A SPT N VALUE ▲  10 20 30 40  ⊗ POCKET PEN. (kPa) ⊗  90 180 270 360  ● MOISTURE CONTENT (%) ●  12 24 36 48	WELL DIAGRAM
-	~~	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (275 mm)  SILTY SAND: Loose, dark brown, silty sand, trace organics, moist  0.00, 331.82 0.28, 331.55	SPT 1	54	2-2-4-2 (6)	6) 12.5	Bentonite
1 -		SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, wet 0.81, 331.01  SILTY SAND: Compact, greenish brown, silty sand, trace gravel, wet	SPT 2	75	1-3-9-8 (12)	12 14.6	Seal 25mm Riser  Groundwater encountered
2 -		becoming brown, saturated 1.52, 330.30 becoming wet 1.73, 330.09	SPT 3	100	2-3-7-7 (10)	10.6 <b>•</b>	at 1.25 m below the ground surface
3		Bottom of borehole at 3.05 m. Elevation	SPT 4	46	5-12-12- 19 (24)	24	(Elevation 330.57 m) on May 14, 2025 25mm Screen #2 Sand Pack

Bottom of borehole at 3.05 m, Elevation 328.77 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-16

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH2**

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PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 332.53 m

LOGGED BY: BRF

DRILLING EQUIPMENT: Geoprobe 7822DT SAMPLING METHOD: SPT

DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	■ SPT N VALUE ■  10 20 30 40  ⊗ POCKET PEN. (kPa) ⊗  90 180 270 360  ■ MOISTURE CONTENT (%) ●  12 24 36 48	ELL DIAGRAM
1	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (300 mm)  SILTY SAND: Compact, brown, silty sand, trace gravel, moist	0.00, 332.53 0.30, 332.23	SPT 1	49 100	1-2-2-1 (4) 5-9-5-5		Bentonite Seal 25mm Riser
2		▼ becoming wet	1.52, 331.01	SPT 3	46	4-3-7-7	10.12.3	#2 Sand Pack Groundwater encountered at 1.72 m below the
3		SAND AND GRAVEL: Loose, brown, sand and gravel, some silt, trace clay, saturated / SILTY SAND: Loose, brown, silty sand, trace gravel, wet becoming compact  Bottom of borehole at 3.05 m, Elevation 329.48 m.	2.29, 330.24 2.44, 330.09 2.73, 329.80	SPT 4	33	6-4-2-16 (6)	9.3•	ground surface (Elevation 330.81 m) on May 14, 2025 25mm Screen



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-16

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH3**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 333.44 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: Geoprobe 7822DT	SAMPLING ME	THOD:	SP	Γ		
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)		LL DIAGRAM
=	~~ ~~ ~~	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (400 mm)	0.00, 333.44	SPT 1	67	1-1-1-1 (2)		—25mm Riser
=		<b>SILTY SAND:</b> Compact, brown, silty sand, trace gravel, moist	0.40, 333.04					⊷Bentonite Seal
1 <u>-</u> - - -		SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, wet SILTY SAND: Compact, brown, silty sand,	0.89, 332.55 0.94, 332.50	SPT 2	49	2-7-7-5 (14)	10	-#2 Sand Pack
2 -		trace gravel, wet		SPT 3	100	3-7-6-5 (13)	13	
3		SAND AND GRAVEL: Very dense, brown, sand and gravel, some silt, trace clay, saturated	2.29, 331.15	SPT 4	41	16-16-50 (66) 6	4● >>4	—25mm Screen  —Groundwater encountered
	1	Bottom of borehole at 3.05 m, Elevation 330.39 m.			1	ı	:	at 2.84 m below the ground surface (Elevation 330.60 m) on May 14, 2025



DRILLING DATE: 25-4-16

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH4**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 333.49 m

		ONTRACTOR: CMT Drilling Inc. QUIPMENT: Geoprobe 7822DT	LOGGED BY: SAMPLING ME		SPT	Γ			
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	■ SPT N VALUE ■  10 20 30 40  ⊗ POCKET PEN. (kPa) ⊗  90 180 270 360  ■ MOISTURE CONTENT (%) ●  12 24 36 48	_	L DIAGRAM
-	\ \ \ \ \	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (275 mm)  SILTY SAND AND GRAVEL: Loose, brown, silty sand and gravel, moist	0.00, 333.49	SPT 1	46	1-1-1-1 (2)			−25mm Riser ⊢Bentonite
1 -		becoming compact	0.76, 332.73	SPT 2	46	8-6-10-13 <sup>(16)</sup> 5	9● 16		Seal
2 -		SILTY SAND: Compact, brown, silty sand, trace gravel, wet	1.57, 331.92	SPT 3	87	7-6-7-8 (13)	13 18.1•		⊢#2 Sand Pack
3 -		SILT: Compact, light brown, silt, some clay and sand, trace gravel, wet  SILT AND SAND: Compact, brown, silt	2.29, 331.20	SPT 4	100	4-5-5-11 (10)	10. 18●	<b>1</b>	<ul><li>25mm Screen</li><li>Groundwater encountered</li></ul>
		and sand, trace clay, wet  Bottom of borehole at 3.05 m, Elevation 330.44 m.							at 2.89 m below the ground surface (Elevation 330.60 m) on May 14, 2025



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-16

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH5**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 334.38 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: Geoprobe 7822DT	SAMPLING ME	THOD:	SP	Г				
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	10 ⊗ PO 90	20 CKET PI 180	30 40  EN. (kPa) &  270 360  DNTENT (%  36 48	 ELL DIAGRAM
-	}	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (200 mm)  SILTY SAND: Very loose, brown, silty sand, with organics, moist	0.00, 334.38 0.20, 334.18	SPT 1	59	1-1-2-3 (3)	3	:		Bentonite
1 -		SILTY SAND: Compact, brown, silty sand, trace gravel, moist	0.76, 333.62	SPT 2	70	5-5-5-6 (10)	···10 11.7			√25mm Riser #2 Sand Pack
2 -		becoming wet	1.83, 332.55	SPT 3	100	7-5-5-7 (10)	10.			
3 -		becoming dense  CLAYEY SILT TILL: Dense, brown, clayey silt till, trace sand and gravel, moist	2.29, 332.09	SPT 4	87	6-12-21- 25 (33)	9.8		33	25mm Screen
	-9	Bottom of borehole at 3.66 m, Elevation 330.72 m.		SPT 5	100	14-21-19- 21 (40)	13		40.	Groundwater encountered at 3.19 m below the ground surface
										(Elevation 331.19 m) on May 14, 2025



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING EQUIPMENT: Geoprobe 7822DT

DRILLING DATE: 25-4-17

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH6**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 337.35 m

LOGGED BY: BRF

**SAMPLING METHOD**: SPT/MC5

		GON MENT. GOOPHONE TOZZET	WI EINO WETTO								
UEPIH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)		0 :	PENETROME	30 ETER (kPa) ( 270	40 Ø 360
_	~~	TOPSOIL: Loose, dark brown, silty organic	0.00, 337.35		_	В	1	2 :	<u>24</u> :	36 :	48
-	$\widetilde{\mathcal{L}}_{\sim}$	topsoil, moist (350 mm)  SILTY SAND: Very loose, dark brown, silty sand, moist	0.35, 337.00	SPT 1	59	1-1-1-1 (2)	2				
1 =		SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist	0.81, 336.54	SPT 2	30	8-16-13-8 (29)			29		
2 -		<b>SILTY SAND:</b> Compact, brown, silty sand, trace gravel, very moist	1.52, 335.83	SPT 3	100	6-6-6-8 (12)	10.7	12			
3 -				SPT 4	100	4-7-7-10 (14)	10.2	14			
				SPT 5	100	4-8-14-12 (22)	9.9		22		
4 -		occasional wet seams encountered	3.66, 333.69	MC5 6	100		15	5.8●			
5 -		becoming dense, wet	4.57, 332.78	SPT 7	100	7-10-35- 35 (45)	14	0			45

Caving in the borehole was encountered at a depth of approximately 3.96 m (El. 333.39 m) below ground surface.

Bottom of borehole at 5.18 m, Elevation 332.17 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-23

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH7**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 338.06 m

LOGGED BY: BRF

DRILLING EQUIPMENT: Geoprobe 7822DT SAMPLING METHOD: SPT/MC5

		·						
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	A SPT N VALUE ▲  10 20 30 40  ⊗ POCKET PEN. (kPa) ⊗  90 180 270 360  ● MOISTURE CONTENT (%) ●  12 24 36 48	WELL DIAGRAM
	_~~~ _~~~	<b>TOPSOIL:</b> Loose, dark brown, silty organic topsoil, moist (375 mm)	0.00, 338.06	SPT 1	67	1-1-1-1 (2)	2\	
	<u> </u>	<b>SILTY SAND:</b> Very loose, dark brown, silty sand, some organics, moist	0.38, 337.69	<b>A</b> '		(2)		25mm Riser
1		SILTY SAND: Compact, brown, silty sand, trace gravel, moist	0.76, 337.30	SPT 2	25	5-4-7-6 (11)	.11 1.9 <b>●</b>	Bentonite Seal
2		becoming very moist	1.83, 336.23	SPT 3	100	5-6-6-5 (12)	12 14.7	No groundwater encountered on May 14, 2025
3		SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist	2.39, 335.67	SPT 4	25	16-17-12- 8 (29)	29	
		SILTY SAND: Dense, brown, silty sand, trace gravel, very moist  SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist	3.05, 335.01 3.28, 334.78	SPT 5	75	5-17-15- 20 (32)	32	#2 Sand Pack #2 Sand Pack #25mm Screen
4	1000			MC5 6	100	3.3	•	
5		becoming very dense, occasional silty sand seam	4.57, 333.49	SPT 7	100	34-50 2.2	•	
1		Bottom of horehole at 5.18 m. Elevation						

Bottom of borehole at 5.18 m, Elevation 332.88 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-23

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH8**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 338.87 m

LOGGED BY: BRF

RILLI	NG E	QUIPMENT:	Geoprobe 7822DT	SAMPLING METHO	<b>D</b> : <u>SPT</u>							
(m)	GRAPHIC LOG		MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)		10 ⊗ POCKE 90	SPT N VALU  20 T PENETROM  180 ISTURE CONT	30 IETER (kPa)	40 3 360 48
	~~	topsoil, m	.: Loose, dark brown, silty organic noist (350 mm) AND: Very loose, dark brown, silty nics, moist		SPT 1	62	1-1-1-1 (2)	2		24	: : : : : : :	
1 -		sand, tra	AND: Very loose, dark brown/grey ce gravel, very moist	, silty 1.12, 337.75	SPT 2	70	0-0-1-1 (1)		2	6.4●		
2 -		becoming	y very moist al wet sand seams encountered	1.60, 337.27	SPT 3	79	2-5-6-6 (11) 9-11-11-	1.1.7	1.1			
3		SAND AN	ND GRAVEL: Dense, brown, sand	and 3.05, 335.82	SPT 4	62	16 (22) 19-19-16-		16.6	22		
4		gravel, so	ome silt, trace clay, moist		SPT 5	100	18 (35) 2 15-26-15-	8			35	
- - - -	. O		the borehole was encountered a		6	100	15 (41) 2	9•	:			4:I : :

Caving in the borehole was encountered at a depth of approximately 3.05 m (El. 335.82 m) below ground surface.

Bottom of borehole at 4.42 m, Elevation 334.45 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-22

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH9**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 340.06 m

LOGGED BY: BRF

DRILL	ING EC	QUIPMENT: Geoprobe 7822DT	SAMPLING ME	THOD:	SP	Г		
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	▲ SPT N VALUE ▲  10 20 30 40  ⊗ POCKET PEN. (kPa) ⊗  90 180 270 360  ● MOISTURE CONTENT (%) ●  12 24 36 48	WELL DIAGRAM
	~~~	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (300 mm)  SILTY SAND: Very loose, dark brown, silty sand, trace organics, moist	0.00, 340.06 0.35, 339.71	SPT 1	54	1-1-1-1 (2)	2	Bentonite Seal
1 -		<b>SILTY SAND:</b> Compact, brown, silty sand, trace gravel, moist	0.76, 339.30	SPT 2	87	4-4-6-13 (10)	10, 15.6•	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
2 -		SILT AND SAND: Compact, brown, silt and sand, trace clay, very moist	1.52, 338.54	SPT 3	100	15-9-8-12 (17)	17	No groundwater encountered on May 14, 2025
3 -		becoming moist  SAND AND GRAVEL: Compact, brown, sand and gravel, moist	2.29, 337.77 —2.59, 337.47 2.69, 337.37	SPT 4	75	7-6-10-10 (16)	16\ 14.9•	25mm Screen
-		SILT AND SAND: Compact, brown, silt and sand, trace clay, wet becoming moist  SAND AND GRAVEL: Compact, brown, sand and sand, sand and sand sand sand sand sand sand	3.05, 337.01 3.15, 336.91	SPT 5	54	10-10-11- 8 (21)3.	: 27 : :	#2 Sand Pack
4 -	0.0	sand and gravel, some silt, trace clay, moist becoming very moist  Bottom of borehole at 4.42 m. Elevation	3.81, 336.25	SPT 6	33	7-5-5-13 (10) <sub>3.9</sub>	10. •	

Bottom of borehole at 4.42 m, Elevation 335.64 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-22

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH10**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 336.45 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: Geoprobe 7822DT	SAMPLING METHO	<b>)</b> : <u>SPT</u>						
				Щ	%	TS		▲ SPT N	VALUE ▲	
l _	ပ			누~		ΈΩ	10	20	30	40
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth,	ET ABE	RECOVERY	OW COUNTS (N VALUE)	⊗ PO	CKET PENET	TROMETER (k	Pa)⊗
	[살기		Elevation (m)	릴	Ó	»≥ >	90	180	270	360
	اق			SAMPLE TYPE NUMBER	RE	BLO' (^	•	MOISTURE (	CONTENT (%)	•
						ш	12	24	36	48
- - -	~~	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (200 mm)  SILTY SAND: Loose, brown, silty sand, trace	0.00, 336.45 0.20, 336.25	SPT 1	33	2-4-5-6 (9)	9		: : : : :	
1 =		gravel, moist becoming compact		SPT 2	0	13-10-11- 9 (21)		2)		
- - - - - -		Rottom of borehole at 1.83 m. Flevation 334.6		SPT 3	75	13-10-7-6 (17)	11.5	17		

Bottom of borehole at 1.83 m, Elevation 334.62 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-22

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH11**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 337.77 m

LOGGED BY: BRF

DRILLING EQUIPMENT: Geoprobe 7822DT SAMPLING METHOD: SPT

			0, am 20 m2		<u> </u>			
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	■ SPT N VALUE ■  10 20 30 40  ⊗ POCKET PEN. (kPa) ⊗  90 180 270 360  ■ MOISTURE CONTENT (%) ●  12 24 36 48	WELL DIAGRAM
	\ \ \ \	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (400 mm)	0.00, 337.77	SPT	75	1-1-1-1	2\	25mm Riser
=		<b>SILTY SAND:</b> Very loose, brown, silty sand, trace gravel, moist	0.40, 337.37	<b>A</b> '		(2)		Bentonite Seal
1 1 -		becoming compact	0.76, 337.01	ODT				Seal Seal
	0 0	SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist	0.97, 336.80	SPT 2	84	4-4-8-7 (12) 6	3 •	
2 -		silty sand seams encountered	1.52, 336.25	SPT 3	87	11-11-7-8 (18)	18	No groundwater encountered on May 14, 2025
3 -		<b>SILTY SAND:</b> Compact, brown, silty sand, trace gravel, very moist	2.29, 335.48	SPT 4	100	9-6-9-14 (15)	7.9 <b>●</b>	25mm Screen ##2 Sand Pack
		Bottom of horehole at 3.05 m. Elevation				<u> </u>	<u> </u>	

Bottom of borehole at 3.05 m, Elevation 334.72 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-22

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

## **BOREHOLE NUMBER BH12**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 338.29 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: Geoprobe 7822DT SAMPLING	METHO	<b>D</b> : <u>SPT</u>	-							
				Ш	%	S-		4	SPT N V	ALUE 🛦		
_	C			₽ R	°`	ΞŒ	10	)	20	30	40	
۲ (-	H <sub>Q</sub>	MATERIAL DESCRIPTION DE	epth,	E T BE	Ë	23		⊗ POCKE	F PENETR	OMETER (kF	Pa)⊗	
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION Eleva	ition (m)	집	ΙŠΙ	OW COUNTS (N VALUE)	90	)	180	270	360	
_	9			SAMPLE TYPE NUMBER	RECOVERY %	BLO/ (N		MOIS	STURE CO	NTENT (%)		
						Ш	12	2	24	36	48	
-		TOPSOIL: Loose, dark brown, silty organic topsoil, moist (125 mm)  SILTY SAND: Loose, brown, silty sand, trace gravel, moist		SPT 1	62	3-7-2-3 (9)	9 12.9					
1 -		becoming compact 0.76, 3	337.53	SPT		6-7-8-8	:	15			:	
		SILT AND SAND: Compact, brown, silt and sand, 1.02, 3 trace clay, moist	337.27	2	67	(15)	5.9●	19/	:			
		<b>211.7</b> 0	200.40	SPT	100	9-10-8-8		18				
2 -		SILT: Compact, brown, silt, some clay and sand, 1.83, 3 trace gravel, wet		A °		(18)	7.8					
_	- 1	trace gravel, wet  COARSE SAND: Compact, brown, coarse sand, moist  Pottom of herebola at 2.13 m. Flourition 236.16 m.	330.38				•		•	·	·	

Bottom of borehole at 2.13 m, Elevation 336.16 m.

# CMT Engineering Inc. Telephone: 519-699-5775

DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING EQUIPMENT: Geoprobe 7822DT

PROJECT NUMBER: 25-111

DRILLING DATE: 25-4-22

1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0

## **BOREHOLE NUMBER BH13**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

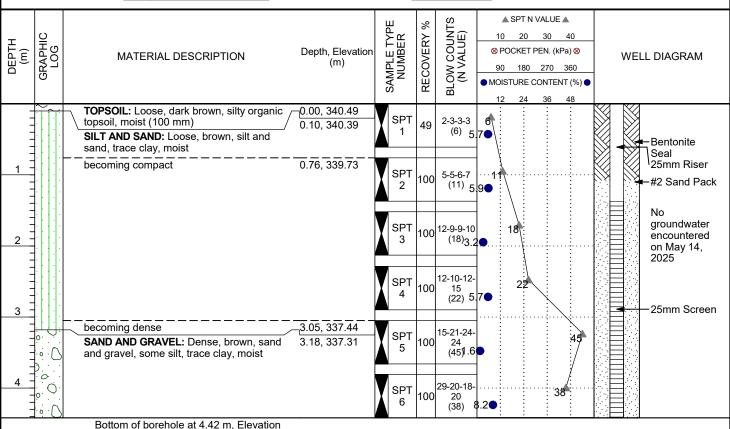
PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

**GROUND ELEVATION**: 340.49 m

LOGGED BY: BRF

SAMPLING METHOD: SPT

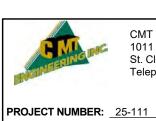


Bottom of borehole at 4.42 m, Elevation 336.07 m.

	A	TO DE	CMT Engineering Inc. 1011 Industrial Crescent, Unit 1					BORE	HOLE	NUME	BER BH14 PAGE 1 OF 1
4	NEE	ING	St. Clements, ON, N0B 2M0 Telephone: 519-699-5775	PPO JECT: Audro	, Maada	o [	Dhana 2				
			relephene. The ede erre	PROJECT: Audrey PROJECT ADDRES				outh			_
PRO	IECT N	UMBER: 2	5-111	PROJECT LOCATIO				outii			
			<del>-</del>								_
		ATE: <u>25-4-</u>		GROUND ELEVATION	·	J. 12	2 111				
			R: CMT Drilling Inc.  Geoprobe 7822DT	LOGGED BY: BRE		T/N/A	^E				
DKIL	LINGE	QUIPWENT.	Geoplobe 7622D1	SAMPLING METHO	D. <u>3</u> F	I / IVIC		1			
	l				Ⅱ	%	BLOW COUNTS (N VALUE)			SPT N VALUE	
F _	GRAPHIC LOG			Depth,	SAMPLE TYPE NUMBER	RECOVERY				20 30 PENETROMETE	40 R (kPa) Ø
DEPTH (m)	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		MATERIAL DESCRIPTION	Elevation (m)	PLE	Š	Ş₹			180 270	360
-	٥				SAN	REC	QZ		<ul><li>MOIS</li></ul>	TURE CONTENT	(%) ●
-	~	- TORSOL	L: Loose, dark brown, silty organic	/¬0.00, 343.12	<b>.</b>		Ш		12	24 36	48 ·
	]:      :		moist (75 mm)	0.00, 343.12	SPT 1	75	1-1-1-1	1 \			
	]:   :		<b>ID SAND:</b> Very loose, dark brown, silt d, trace clay, trace organics, moist	0.25, 342.87	<b>A</b> '		(2)		14		
	<u> </u>		ng fine, brown, no organics	- J	V			}	<u> </u>		
'	<b>‡</b>	becomir	ng compact		SPT 2	92	7-6-6-5 (12)	1	· 12 · .2		
	]: [ ] [	becomir	ng coarse	1.27, 341.85			, ,	. 14	2		
	<u> </u>	becomir	ng fine, light brown	1.52, 341.60	227			-	7		
2	<del> </del> - - - -				SPT 3	100	7-9-8-8 (17)	4.5 <b>9</b>	1/		
	3:11:									:	:
	]:   :	becomir	ng brown	2.29, 340.83	SPT		8-7-8-8		15		
			ND GRAVEL: Compact, brown, sand	2.57, 340.55	4	62	/45	.7	15		
3		and grav	vel, some silt, trace clay, moist							<u> </u>	
	]				SPT	50	7-9-14-14		:	23	
					5	59	<sup>(23)</sup> 1.7	•	:		
	<del> </del>  •:0				$\nabla$			-			
4	]; ; .				MC5	100				<u> </u>	
	- O ·				6		l	3●			
	<u> </u>	SILT AN	ID SAND (FINE): Compact, light browr sand (fine), trace clay, moist	1, 4.39, 338.73 4.57, 338.55			.=		:		
5	] [ [ ] [	SILT AN	ID SAND: Compact, brown, silt and sa		SPT 7	33	17-14-16- 18			30	
	3:11:	trace cla	ay, moist				(30)1.4	•	:		:
	<u>-</u>				V				:		
	#				MC5 8	100			400		:
6	3:11:	011 = 71 0		5.00.007.10	/\				18	<u>.</u>	· · · · · · · · · · · · · · · · · · ·
4-7	3:111:		AND: Compact, brown, silty sand, trace yery moist	ce / $-5.99, 337.13$ / 6.10, 337.02	SPT		11-16-10-	-	:	26	
L 25-			ng very moist		9	100	14 (26)	12.	9	20	
- E.GD	∄::::		ND GRAVEL: Compact, brown, sand vel, some silt, trace clay, moist	6.58, 336.54			, ,	-	:		
7 7	∄: : : :	SILT AN	ID SAND (FINE): Compact, brown, silt		MC5	400				÷	
2020			d (fine), trace clay, moist  ND GRAVEL: Compact, brown, sand	7.21, 335.91	10	100		5.5			
¥	<u> </u>	and gra	vel, some silt, trace clay, moist						•	: :	:
EMPL			in the borehole was encountered at a fapproximately 3.35 m (El. 339.77 m)	,							
T_ T_		below g	round surface.	50 m							
2		DOLLOITI	of borehole at 7.62 m, Elevation 335.5	)O III.							
11.G											
. 25-1											
LOG2											
BOREHOLE LOG2 25-111.GPJ CMT_TEMPLATE_2020-05-15.GDT 25-5-14											
HH HH											
BC											

	EI	T NC	CMT Engineering Inc. 1011 Industrial Crescent, Unit 1					BORE	HOLE	E NUN		<b>BH15</b> SE 1 OF 1			
	INEER	MG	St. Clements, ON, N0B 2M0 Telephone: 519-699-5775	PROJECT: Audre	v Meado	vs F	Phase 2								
dia			•	PROJECT ADDRES				outh							
PROJ	ECT NI	JMBER: 2	5-111	PROJECT LOCATION											
		ATE: 25-4-	_	GROUND ELEVATION											
			R: CMT DRILLING INC.	LOGGED BY: BRI	· ·										
			Geoprobe 7822DT	SAMPLING METHO	 C5										
	1														
					SAMPLE TYPE NUMBER	%	BLOW COUNTS (N VALUE)			SPT N VALU		40			
DEPTH (m)	GRAPHIC LOG		MATERIAL DECORIDATION	Depth,	BEA	RECOVERY		'	0 2 ⊗ POCKET		30 ETER (kPa)	8			
HE   E			MATERIAL DESCRIPTION	Elevation (m)	JAN UM	Š	> > > > > > > > > > > > > >	g			270	360			
-	ا ق				SAN	REC	50		MOIS	TURE CONT	ENT (%)				
	$\sim$	TORCO	II. I agaa dark brown ailty argania	0.00.242.04	97		ш	1	2 2 ·	24	36	48			
		topsoil,	IL: Loose, dark brown, silty organic moist (125 mm) ID SAND (FINE): Very loose, dark b sand (fine), trace clay, moist	0.13, 342.79	SPT 1	54	1-1-1-1 (2)	6.9							
1 -	)		AND GRAVEL: Very loose, brown, so vel, some silt, trace clay, moist	and , 0.76, 342.15	SPT		9-10-7-8		17						
=	o . O		ng compact	/	2	100	(47)	•	''						
=					SPT		8-8-9-13		17	:	:				
2 -	o O:				3	100	(17) 2.	5	\	:	:				
=	:0:\	COARS	E SAND: Compact, brown, coarse s	sand, 2.29, 340.62			10 10 0		\	<u>;</u>	:				
=		moist	, , ,	,	SPT 4	100		6.9	2		:				
3 -					<b>A</b>		(21)	0.90							
			ND SAND: Compact, brown, silt and ay, moist	sand, 3.05, 339.86	SPT 5	100	10-7-5-6 (12)	11.6	12						
4 -					MC5 6	100			 17.6 <b>●</b>		:				
=	0	SAND A and gra	AND GRAVEL: Compact, brown, sar vel, some silt, trace clay, moist with	nd 4.32, 338.59 wet / 4.57, 338.34						:					
5 -		seams becoming	ng dense	$$ $\frac{4.80,338.34}{4.80,338.11}$	SPT 7	75	36-27-27- 23			:	:	>>			
=		SILT AN	ND SAND: Dense, brown, silt and sa ay, moist	/			(54)	12		·} · · · · · · · · · · · · · · · · · ·	:				
=		11400 010	ay, moiot		MC5	100				:					
6 -					8	100		12.2		:	:				
_		becomir		<u>5.89, 337.02</u>						: :	:	:			
4 PACE TOOS SOLITION OF THE SACROST SOLITION OF THE SA		becomii	ng moist	6.10, 336.81	SPT 9	100	12-14-17- 22 (31)	11.5			3.⁴				
7 -					MC5										
7077					MC5 10	100		.8●			:				
=	<u> </u>	Caving	in the borehole was encountered at	t a					:	:	:	:			
		depth o	f approximately 4.27 m (El. 338.64)												
1			round surface. of borehole at 7.62 m, Elevation 33	35.29 m.											
2		Bottom	or boronoic at 7.02 m, Elevation oc												
<u>-</u>															
5															
200															
2															

	A	T INC	CMT Engineering Inc. 1011 Industrial Crescent, Unit 1					ВС	DRE	НО	LE	NU	IME	BER BH16 PAGE 1 OF 1
	NEE	INC	St. Clements, ON, N0B 2M0 Telephone: 519-699-5775	PROJECT: A	udrev Me	eado	ws Phase	e 2						
310			•	PROJECT ADD	•				h					_
PROJI	ECT N	UMBER: 2	5-111	PROJECT LOC										_
		ATE: 25-4		GROUND ELEV	/ATION:	_34	2.07 m							
DRILL	ING C	ONTRACTO	R: CMT Drilling Inc.	LOGGED BY:	BRF									
DRILL	ING E	QUIPMENT:	Geoprobe 7822DT	SAMPLING ME	THOD:	SP	Г/МС5							
DEPTH (m)	GRAPHIC LOG	ı	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	10 ⊗ PC 90	SPT N VA  20  DCKET PE  180  2  TURE COI	30 <u>/</u> N. (kPa 270 3 NTENT	40 a)⊗ 660 (%) ●	-	WEL	L DIAGRAM
_	$\sim\sim$		IL: Loose, dark brown, silty organic	0.00, 342.07	SPT		4444	12	24	36 <u>4</u> :	<u>48</u> :	M	M	
		SILT AN	moist (125 mm)  ND SAND: Very loose, dark brown, sand, trace clay, trace organics,	0.25, 341.82	1	49	1-1-1-1 (2)	9.4				<b>.</b>		-25mm Riser
1 -		_ moist	ng compact	0.76, 341.31	SPT		10 0 0 11	!`						
		SILTY S	SAND: Compact, brown, silty sand, avel, moist	0.99, 341.08	2	75	10-9-9-11 (18) {	3.1	10					
2 -					SPT 3	100	15-9-7-10 (16)	1/2.2 <b>•</b>	6	:	<u>:</u>			No groundwater encountered on May 14, 12025
3 -	0		AND GRAVEL: Compact, brown, nd gravel, some silt, trace clay, moist	2.39, 339.68	SPT 4	67	11-12-16- 15 (28)	8.7	28					Bentonite Seal
=		COARS sand, m	E SAND: Compact, brown, coarse noist	3.05, 339.02	SPT 5	100	10-9-8-9 (17) <sub>3.8</sub>	1	<b>≠</b>					
4 -		SILT AN and sar	ND SAND: Compact, brown, silt and, trace clay, moist	3.66, 338.41	MC5 6	100	4.	7•			:			
5 -		becomi	ng fine	4.57, 337.50	SPT 7	33	6-7-12-13 (19)	14.4	19					
175-67			E SAND: Compact, brown, coarse ith occasional wet seams	5.18, 336.89	MC5 8	100	1.9	•						-#2 Sand Pack
		becomi	ng dense	6.10, 335.97	SPT 9	100	15-20-24- 24 (44) 2				44			-25mm Screen
7 -			ND SAND: Dense, brown, silt and ace clay, moist	6.71, 335.36	$\Pi$				:		:			
		SILT: D	ense, brown, silt, some clay and ace gravel, moist	7.01, 335.06	MC5 10	76		17.2	•					
<u> </u>	<u>. † † †</u>		ND SAND: Dense, brown, silt and	7.39, 334.68				:	:	:	<u>:                                    </u>			
900 CONTINUE 25-11.05 CONTINUE 25-25-25 CONTINUE 25-25-25-25 CONTINUE 25-25-25-25 CONTINUE 25-25-25-25 CONTINUE 25-25-25-25 CONTINUE 25-25-25-25 CONTINUE 25-25-25-25 CONTINUE 25-25-25-25-25 CONTINUE 25-25-25-25 CONTINUE 25-25-25-25 CONTINUE 25-25-25-25 CONTINUE 25-25-25-25-25 CONTINUE 25-25-25-25-25 CONTINUE 25-25-25-25-25-25-25-25-25-25-25-25-25-2			ace clay, moist m of borehole at 7.62 m, Elevation 334.45 m.											



DRILLING DATE: 25-4-23

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BH17**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 342.74 m

			LOGGED BY: BRE SAMPLING METHO		Г/М(	 C5	-
		CCOPIOSO 102251	5, 1.111 E1110		. , . v i C		- T
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	
-	~~	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (200 mm)  SILTY SAND: Loose, brown, silty sand, trace organics, moist	0.00, 342.74 0.20, 342.54	SPT 1	46	1-2-2-2 (4)	4
1 -		becoming compact, no organics  SILT AND SAND: Compact, brown, silt and san trace clay moist	d, 0.97, 341.77	SPT 2	87	9-8-8-8 (16)	14.7
2	0	SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist  SILT AND SAND (FINE): Compact, brown, silt	1.52, 341.22	SPT 3	87	9-10-6-10 (16)	
-		and sand (fine), trace clay, trace gravel, wet  SAND AND GRAVEL: Dense, brown, sand and gravel, some silt, trace clay, moist		SPT 4	100		3.7•
3 -	0.0			SPT 5	100		40
4 -	0	SILT AND SAND: Dense, light brown, silt and	4.24, 338.50	MC5 6	100		4.4●
5 -		sand, trace clay, moist becoming brown	4.57, 338.17	SPT 7	100	15-20-18- 25 (38) 2.	: : : : : : : : : : : : : : : : : : : :
6 -	0	SAND AND GRAVEL: Dense, brown, sand and gravel, some silt, trace clay, moist  SILT AND SAND: Dense, brown, silt and sand, trace clay moist	5.18, 337.56 5.44, 337.30 5.66, 337.08	MC5 8	100		- 2●
- - - - -		SAND AND GRAVEL: Dense, brown, sand and gravel, some silt, trace clay, moist  SILT AND SAND: Dense, brown, silt and sand, trace clay, moist	5.89, 336.85 6.02, 336.72 6.27, 336.47	SPT 9	75	25-27-28- 15 (55)	11.2
7		SILT: Dense, brown, silt, some clay and sand, trace gravel, moist SILT AND SAND: Dense, brown, silt and sand, trace clay, moist	6.71, 336.03	MC5 10	100		6.8●
		COARSE SAND: Dense, brown, coarse sand, moist  SILT AND SAND: Dense, brown, silt and sand, trace clay, moist  Caving in the borehole was encountered at a depth of approximately 3.66 m (El. 339.08 m) below ground surface.  Bottom of borehole at 7.62 m, Elevation 335.12	, , , , , , , , , , , , , , , , , , ,				



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING EQUIPMENT: Geoprobe 7822DT

DRILLING DATE: 25-4-23

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BH18**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 339.98 m

LOGGED BY: BRF

SAMPLING METHOD: SPT/MC5

				Ш	ايا	ည		_	SPT N VALUE	<b>A</b>	
_	<u>ပ</u>			ΥP	ارچ	ΞŒ		10	20 3	0	40
<u>_</u>	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth,	E T 18E	ш	Ę Ś		⊗ POCKET	PENETROME	TER (kPa)	8
E (E)	[돌기	MATERIAL DESCRIPTION	Elevation (m)	IPL UN	ΙŠΙ	N N N	Ç	90 1	180 2	70	360
	٥			SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)		<ul><li>MOIS</li></ul>	TURE CONTE	NT (%)	
				0)	٣	В		12	24 3	6	48
=	$\sim 1$	TOPSOIL: Loose, dark brown, silty organic	0.00, 339.98	SPT		1-1-1-1	•	:	-	:	:
=	$\sim$	topsoil, moist (350 mm)  SILTY SAND: Very loose, dark brown, silty sand,	0.35, 339.63	1	67	(2)	^\	20.2	:	:	:
=		some organics, moist	0.33, 339.03			. ,		20.2	:	: :	:
1 -		becoming loose, no organics	0.76, 339.22					:		:	:
-		becoming brown	0.97, 339.01	SPT 2	84	1-2-3-6 (5)	14.	; <b>X</b>		:	
Ξ	]. [ ] [ ]					. ,	14.	4			
=	<u> </u>	becoming compact, trace gravel	1.52, 338.46							:	:
=		becoming compact, trace graver	1.02, 000.40	SPT	100	9-12-14- 10		:	26	:	:
2 -	11111			3		(26)	11.1	<b>!</b>	i/	:	
Ξ								-	<i>'</i> .	:	:
=		SILT AND SAND (FINE): Compact, brown, silt	2.29, 337.69	SPT		10-8-8-8		16			
=		and sand (fine), trace clay, wet		4	100	(16)	1:	: 16₹ 5.7●			
; -								`	\ <u>:</u>	:	:
=	<u> </u>					8-11-11-		•	:\	: · · · · · · · · · · · · · · · · · · ·	:
=			3.35, 336.63	SPT 5	100	11		:	22	: :	:
=		becoming moist	3.35, 336.63			(22)		17.6		:	Ė
. =								:		:	:
<u>4</u> -				MC5	400			<del>:</del>	<u>.</u>	: :	‡
Ξ		<b>COARSE SAND:</b> Compact, brown, coarse sand,, wet	4.04, 335.94	6	100		14	: .6 <b>•</b>		:	:
=		Wot		/ \			'-				•
_	0. Y	SAND AND GRAVEL: Compact, brown, sand	4.57, 335.41	V		12-15-13-				:	
5 -	00	and gravel, some silt, trace clay, moist		SPT 7	100	13	0.00		28	:	
	b∵ . ·					(28)	8:8● .	:	:	:	· · · · · · · · · · · · · · · · · · ·

Caving in the borehole was encountered at a depth of approximately 4.57 m (El. 335.41 m) below ground surface.

Bottom of borehole at 5.18 m, Elevation 334.80 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING EQUIPMENT: Geoprobe 7822DT

DRILLING DATE: 25-4-23

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BH19**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 339.16 m

LOGGED BY: BRF

SAMPLING METHOD: SPT

		·		_					
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	■ SPT N VALUE ■  10 20 30 40  ⊗ POCKET PEN. (kPa) ⊗  90 180 270 360  ■ MOISTURE CONTENT (%) ●  12 24 36 48	WELL DIAGRAM	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>TOPSOIL:</b> Very loose, dark brown, silty organic topsoil, moist (840 mm)	0.00, 339.16	SPT 1	59	1-1-1-1 (2)		Bentonite Seal 25mm Rise	ar.
1 -		<b>SILTY SAND:</b> Compact, brown, silty sand, trace gravel, moist	0.84, 338.32	SPT 2	59	4-5-8-8 (13)	13	##2 Sand Pa	
2		becoming wet	1.52, 337.64	SPT 3	100	5-8-12-19 (20)	9.1	groundwate encountered on May 14, 2025	ed
3	0. 0.	SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist/ SILT AND SAND: Compact, brown, silt and sand, trace clay, saturated	2.29, 336.87 2.49, 336.67 2.79, 336.37	SPT 4	100	16-11-2- 28 (13)	13 17•	25mm Scre	en
-		SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist SILT AND SAND: Compact, brown, silt and sand, trace clay, moist	3.05, 336.11	SPT 5	100	18-19-16- 15 (35)	35 18.1 <b>●</b>		

Bottom of borehole at 3.66 m, Elevation 335.50 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-17

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BH20**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

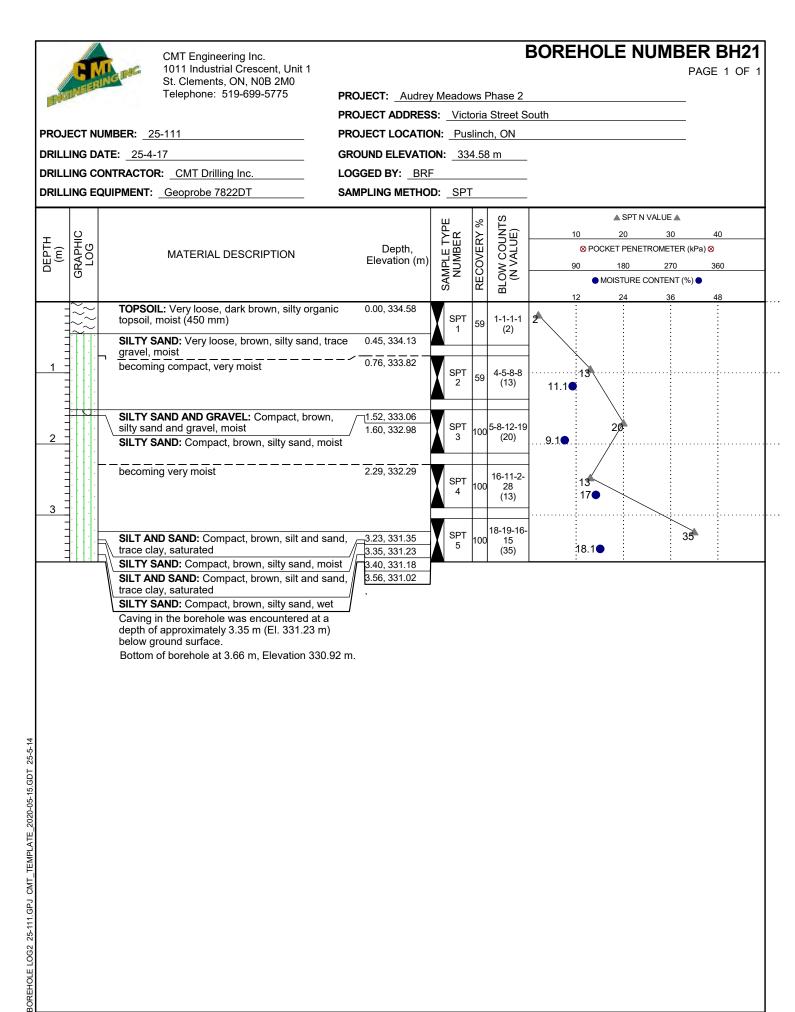
GROUND ELEVATION: 335.77 m

LOGGED BY: BRF

DRILLING EQUIPMENT: Geoprobe 7822DT SAMPLING METHOD: SPT

TOPSOIL: Loose, dark brown, silty organic 0.00, 335.77 topsoil, moist (225 mm)  SILTY SAND: Very loose, dark brown, silty sand, some organics, trace gravel, moist becoming very moist 1.52, 334.25  SILT AND SAND: Dense, brown, silt and 1.73, 334.04 sand, trace clay, moist sand and gravel, some silt, trace clay, moist 1.98, 333.79  SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist 2.29, 333.48  SPT 92 25-32-26 (58)3.6  SPT 92 25-32-26 (58)3.6  SPT 92 25-32-26 (19) 12.70  SPT 10 12-13-15 28	
SILTY SAND: Very loose, dark brown, silty sand, some organics, trace gravel, moist   Decoming compact, no organics, very moist   Decoming very moist   D	00 0 ⊗ WELL DIAGRAM 60 (%) ●
becoming compact, no organics, very moist 0.76, 335.01    SPT   92   5-5-6-7   11   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4   9.4	25mm Riser
SILT AND SAND: Dense, brown, silt and sand, trace clay, moist sand, trace clay, moist sand, trace clay, moist sand and gravel, some silt, trace clay, moist sand, brown, silty sand and gravel, wet silty sand, wet specific sand, wet specific sand, wet specific sand, silty sand, silty sand, wet specific sand, silty sand, silty sand, silty sand, wet specific sand, silty sand, si	Bentonite Seal
becoming dense    SPT   4   92   25-32-26   (58) 3.6	
brown, silty sand and gravel, wet  SPT 87 16-13-6-8 (19) 12.7  SILTY SAND: Compact, brown, silty sand, wet  SPT 100 15-13-15- 28	+#2 Sand Pack
	Groundwater encountered
Bottom of borehole at 4.42 m, Elevation 331.35 m.	at 3.58 m below the ground surface (Elevation 332.19 m) on May 14, 2025 25mm Screen

BOREHOLE LOG WITH WELL2 25-111.GPJ CMT\_TEMPLATE\_2020-05-15.GDT 25-5-27





DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING EQUIPMENT: Geoprobe 7822DT

DRILLING DATE: 25-4-17

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BH22**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 332.82 m

LOGGED BY: BRF

SAMPLING METHOD: SPT

DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	■ SPT N VALUE ■  10 20 30 40  ⊗ POCKET PEN. (kPa) ⊗  90 180 270 360  ■ MOISTURE CONTENT (%) ●  12 24 36 48	WELL DIAGRAM
	\ \ \ \	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (450 mm)	0.00, 332.82	SPT 1	75	1-2-1-2 (3)	31	25mm Riser
=		SILTY SAND: Very loose, brown, silty sand, moist	0.45, 332.37					Bentonite Seal
1 -		becoming loose  COARSE SAND: Compact, brown, coarse sand, saturated	0.76, 332.06 0.84, 331.98 0.97, 331.85	SPT 2	70	1-4-5-5 (9)	9 21.3	Groundwater
=		SILTY SAND: Compact, brown, silty sand, wet		SPT		6-6-8-7		at 1.15 m below the
2 -				3	70	(14)	19.1	ground surface (Elevation
				SPT		4-7-20-20 (27)	27	331.67 m) on May 14, 2025
			,	4	54	(27)	11.7	125mm Screen #2 Sand Pack
		Bottom of borehole at 2.90 m, Elevation						

Bottom of borehole at 2.90 m, Elevation 329.92 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-16

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BH23**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 331.35 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: Geoprobe 7822DT	SAMPLING ME	THOD: _	SP1	Г				
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	10 : ⊗ POCK 90 1	T N VALU 20 30 (ET PEN. ( 80 270 RE CONTE	40 kPa)⊗ 360	WELL DIAGRAM
-	~~	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (300 mm)  SILTY SAND AND GRAVEL: Loose, brown, silty sand and gravel, wet	0.00, 331.35	SPT 1	75	1-2-2-2 (4)	16.8		:	25mm Riser  Bentonite
1 -		becoming compact	0.76, 330.59	SPT 2	33	10-8-7-12 (15)	15 11.7			Seal Groundwater encountered at 0.85 m below the
2 -		SILTY SAND: Compact, brown, silty sand, trace gravel, wet	1.52, 329.83	SPT 3	75	8-8-11-10 (19)	1 € 3.7.			ground surface (Elevation 330.50 m) on May 14, 2025
3 -	· · ·	SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, wet  SILT: Compact, brown, silt, some clay and sand, trace gravel, saturated	_2.29, 329.06 2.44, 328.91	SPT 4	100	10-13-8- 19 (21)	13.2	<b>A</b>		\\25mm Screen \  \rightarrow #2 Sand Pack

Bottom of borehole at 3.05 m, Elevation 328.30 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-16

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BH24**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 331.24 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: Geoprobe 7822DT	SAMPLING ME	THOD: _	SP	-		
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	■ SPT N VALUE ■  10 20 30 40  ⊗ POCKET PEN. (kPa) ⊗  90 180 270 360  ■ MOISTURE CONTENT (%) ■  12 24 36 48	WELL DIAGRAM
	$\sim$	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (175 mm)  SILTY SAND: Loose, brown/grey, silty sand, trace gravel, wet	0.00, 331.24 0.18, 331.07	SPT 1	100	0-2-4-5 (6)	6 16. <b>∀●</b>	25mm Riser  Bentonite
1 =		becoming compact, very moist	0.76, 330.48	SPT 2	25	13-9-10- 13 (19)	9●	Seal Groundwater encountered at 0.64 m below the
2 -		becoming wet	1.52, 329.72	SPT 3	0	6-6-7-6 (13)	13	ground surface (Elevation 330.60 m) on May 14, 2025
3		SILT: Compact, grey/brown, silt, some clay and sand, trace gravel, wet	2.29, 328.95	SPT 4	100	2-4-7-8 (11)	11 17●	25mm Screen #2 Sand Pack
		Bottom of borehole at 3.05 m. Elevation					·	· · · · · · · · · · · · · · · · · · ·

Bottom of borehole at 3.05 m, Elevation 328.19 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-22

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BH33 SWMP**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 339.28 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: Geoprobe 7822DT	SAMPLING ME	THOD:	SP	Γ			
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	SPT N VALUE	WELL	_ DIAGRAM
		TOPSOIL: Loose, dark brown, silty organic topsoil, moist (125 mm)  SILTY SAND: Very loose, brown, silty sand, moist	0.00, 339.28 0.13, 339.16	SPT 1	49	1-2-1-1 (3)	3		-25mm Riser
1 -		SILT AND SAND: Loose, brown, silt and sand, trace clay, moist	0.76, 338.52	SPT 2	100	5-3-4-4 (7) 4.	3●		-Bentonite Seal
2 -		COARSE SAND: Loose, brown, coarse sand, dry	1.52, 337.76	SPT 3	75	4-4-5-5 <sup>(9)</sup> 1.6	9		No groundwater encountered on May 14, 2025
3		<b>SILT AND SAND:</b> Loose, brown, silt and sand, trace clay, dry	2.29, 336.99	SPT 4	100	6-5-4-4 (9) 6	9 3 <b>●</b>		
				SPT 5	100	4-3-3-5 (6 <sub>0.9</sub>	6)		-25mm Screen
4 -				SPT 6	100	4-4-4-6 <sup>(8)</sup> 1.5	8		
5 -		becoming compact, moist	4.57, 334.71	SPT 7	100	6-8-10-10 (18)3.4	18		-#2 Sand Pack
1		Bottom of borehole at 5.18 m. Elevation							

Bottom of borehole at 5.18 m, Elevation 334.10 m.

BOREHOLE LOG WITH WELL2 25-111.GPJ CMT\_TEMPLATE\_2020-05-15.GDT 25-5-27



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-24

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BH101**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 339.88 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: Geoprobe 7822DT	SAMPLING ME	THOD:	SPI	T/MC5		
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	■ SPT N VALUE ■  10 20 30 40  ⊗ POCKET PEN. (kPa) ⊗  90 180 270 360  ■ MOISTURE CONTENT (%) ●  12 24 36 48	WELL DIAGRAM
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	topsoil, moist (175 mm)	0.00, 339.88 0.18, 339.71 0.41, 339.47	SPT 1	84	1-1-1-2 (2)	15.3 <b>•</b>	25mm Riser
1 -		haaaming lagas	0.76, 339.12	SPT 2	84	0-1-3-3 (4)	16.2 <b>•</b>	Bentonite Seal
2 -		SILT AND SAND: Loose, brown, silt and sand, trace clay, wet	1.85, 338.03	SPT 3	87	2-3-4-6 (7)	7 15.4•	Groundwater encountered
3 -		SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, saturated	2.29, 337.59	SPT 4	46	8-2-3-2 (5)	11.90	at 2.07 m below the ground surface (Elevation
-		clay and sand, trace gravel, wet	3.05, 336.83 3.20, 336.68 3.33, 336.55	SPT 5	75	5-7-15-15 (22)	22 18:3 <b>•</b>	337.81 m) on May 14, 2025
4 -		and sand, trace clay, saturated		MC5 6	0			#−#2 Sand Pack
5 -		CLAYEY SILT TILL: Very dense, brown, clayey silt till, trace sand and gravel, moist  Bottom of borehole at 5.18 m, Elevation	4.57, 335.31	SPT 7	161	31-26- 50/0.08	12.3♠ >>	

334.70 m.

BOREHOLE LOG WITH WELL2 25-111.GPJ CMT\_TEMPLATE\_2020-05-15.GDT 25-5-27



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-16

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BHA**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 332.56 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: Geoprobe 7822DT SAI	MPLING METHO	<b>D</b> : <u>SP</u> 1								
				Ш	%	LS		4	SPT N V	ALUE 🛦		
l _	ပ			Ϋ́	یٰ	ÄΞ		10	20	30	40	
F @	품의	MATERIAL DESCRIPTION	Depth,	E T IBE	ŒF	Š3		⊗ POCKE	T PENETR	ROMETER (kl	Pa)⊗	
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Elevation (m)	PL UN	ΙŠ	OW COUNTS (N VALUE)	!	90	180	270	360	
_	۵			SAMPLE TYPE NUMBER	RECOVERY	95		<ul><li>MOI</li></ul>	STURE CO	ONTENT (%)	•	
				0)	"	BI		12	24	36	48	
_	~~	TOPSOIL: Loose, dark brown, silty organic	0.00, 332.56	OPT			<b>A</b>	:	:	:	:	
-		topsoil, moist (250 mm)	0.25, 332.31	SPT 1	67	1-1-1-1 (2)	2	: 17.7				
=		SILTY SAND: Very loose, dark brown, silty sand, trace organics, moist				. ,		17.7				
=	-  -  -  -  -  -	SILT AND SAND: Very loose, brown, silt and	0.76, 331.80						•			
1 -		sand, trace clay, saturated	0.70, 331.00	SPT 2	100	1-1-1-1	2	<u> </u>				
=		, , , , , , , , , , , , , , , , , , , ,		2	100	(2)		22.2	•		:	
-	<b>!</b>						\		i	i	:	
1 -		SILTY SAND: Compact, brown, silty sand,	1.52, 331.04				1		:	:	:	
2 -		saturated		SPT 3	100	5-5-7-7 (12)		12	:	Ė	:	
<del></del>	<u> </u>					(12)		1.7.7.	:		• • • • • • • • • • • • • • • • • • • •	
=								:\	:	:	:	
=				SPT		9-6-8-8		14	:	:	:	
] =	-  -  -  -  -  -  -  -  -  -  -  -  -	becoming very moist	2.59, 329.97	4	100	(14)		19.9	:	:	:	
	-   -   -							:		:	:	

Bottom of borehole at 2.90 m, Elevation 329.66 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-16

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BHB**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 332.62 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: _Geoprobe 7822DT	SAMPLING METHO	<b>D</b> : <u>SPT</u>			
				ш	%	ည	▲ SPT N VALUE ▲
_	<u>ပ</u>			₽ ~	≿		10 20 30 40
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth,	19.ET	闸	OW COUNTS (N VALUE)	⊗ POCKET PENETROMETER (kPa) ⊗
DE (r	꽃기	WATERWAL BEGORM TION	Elevation (m)	린	lő.	≥ <del>≥</del>	90 180 270 360
	ا			SAMPLE TYPE NUMBER	RECOVERY %	BLO.	● MOISTURE CONTENT (%) ●
	<u> </u>				匚	ш	12 24 36 48
=	$\sim\sim$	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (250 mm)	0.00, 332.62	SPT		1-1-1-1	2
		SILTY SAND: Very loose, brown, silty sand,	0.25, 332.37	1	59	(2)	22.4
_		some organics, moist					
1 -		becoming compact, wet	0.76, 331.86	V			
				SPT 2	54	3-2-11-22 (13)	11
						, ,	''
_							
_ =				SPT	16	4-7-4-5	11/1
2 -				3	-	(11)	9.7• :\
-				SPT		6-8-8-11	16
=				4	49	(16)	10.9
_		Caving in the horehole was encountered at a					: : : :

Caving in the borehole was encountered at a depth of approximately 2.44 m (El. 330.18 m) below ground surface.

Bottom of borehole at 2.90 m, Elevation 329.72 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-17

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BHC**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 337.41 m

LOGGED BY: BRF

DRILLING EQU	JIPMENT: Geoprobe 7822DT SA	AMPLING METHO	<b>D</b> : <u>SPT</u>	/M0	<u> </u>					
DEPTH (m) GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	10 90	2	PENETROME 30 2 URE CONTE	TER (kPa) ⊗ 70 3 NT (%) ●	60
~~	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (275 mm)  SILTY SAND: Loose, brown, silty sand, some organics, moist	0.00, 337.41	SPT 1	49	1-2-2-1 (4)	4			· · · · · · · · · · · · · · · · · · ·	
1 -0	becoming compact, no organics  SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist  SILT: Compact, brown, silt, some clay and sand,	0.76, 336.65 0.81, 336.60 0.94, 336.47	SPT 2	54	12-12-11- 15 (23)	10.7		23		
2 =	trace gravel, moist		SPT 3	100	7-11-12- 14 (23)	14.		23		
3	<b>CLAYEY SILT TILL:</b> Dense, brown, clayey silt till, trace sand and gravel, moist	2.29, 335.12	SPT 4	100	17-19-21- 21 (40)	12.2	•		40	
	becoming compact  SILT AND SAND: Compact, brown, silt and sand,	3.05, 334.36	SPT 5	84	9-14-11- 12 (25)	12.9		25		
4 - 1	trace clay, saturated  SILTY SAND: Compact, brown, silty sand, some gravel, wet	3.66, 333.75	MC5 6	100		10.3				
5 -	becoming grey, saturated  Caving in the borehole was encountered at a	4.57, 332.84	SPT 7	100	3-5-7-7 (12)	10 <b>●</b>	<b>2</b>			

Caving in the borehole was encountered at a depth of approximately 4.11 m (El. 333.30 m) below ground surface.

Bottom of borehole at 5.18 m, Elevation 332.23 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-17

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BHD**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 336.61 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: Geoprobe 7822DT S	AMPLING METHO	D: <u>SP</u>	Γ						
				Ш	%	ပ္ပ		4	▲ SPT N \	/ALUE ▲	
l _	ပ			모		ΝŒ	1	0	20	30	40
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth,	ET BE	ΈR	OW COUNTS (N VALUE)		⊗ POCKE	T PENETF	ROMETER (KF	<sup>2</sup> a)⊗
	조기	WATERIAL DESCRIPTION	Elevation (m)	골	ĮŠ		9	90	180	270	360
-	Q			SAMPLE TYPE NUMBER	RECOVERY	ÓΖ		<ul><li>MOI</li></ul>	STURE C	ONTENT (%)	•
				()	"	BL(	1	2	24	36	48
-	}	TOPSOIL: Very loose, dark brown, silty organic topsoil, moist (175 mm)  SILTY SAND: Very loose, brown, silty sand, moist	0.00, 336.61 0.18, 336.44	SPT 1	38	1-1-1-1 (2)	2	:		:	
1 -		becoming compact  SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist  SILTY SAND: Compact, brown, silty sand, very	0.76, 335.85 0.84, 335.77 0.89, 335.72	SPT 2	100	5-7-7-6 (14)	10.8	14			
2		moist  SILT AND SAND: Compact, brown, silt and sand, trace clay, moist	1.96 334 65	SPT 3	100	7-8-9-10 (17)		20.2			
]		SILT: Compact, brown, silt, some clay and sand,						/			:
=		SILTY SAND: Compact, brown, silty sand, moist	<u>/</u> 2.29, 334.32	SPT 4	84	5-4-7-18 (11)	1 10.1				
3 =	ö. Ö.	SAND AND GRAVEL: Compact, brown, sand	2.74, 333.87		_		10.10	:		<u>.</u>	
- - - - -		and gravel, some silt, trace clay, moist becoming very desne	3.05, 333.56	SPT 5	100	31-26-18- 14 (44) 2.	9•				44

Caving in the borehole was encountered at a depth of approximately 3.05 m (El. 333.56 m) below ground surface.

Bottom of borehole at 3.66 m, Elevation 332.95 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-17

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BHE**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 338.81 m

LOGGED BY: BRF

DRILL	ING E	QUIPMENT: Geoprobe 7822DT SA	AMPLING METHO	<b>D</b> : <u>SP</u> T	/M	C5					
DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	9	10 2 ⊗ POCKET 90 1 ● MOIS	PENETROME 80 2 TURE CONTE	30 TER (kPa)	360
- - - - -	~~	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (275 mm)  SILTY SAND: Very loose, brown, silty sand, moist	0.00, 338.81	SPT 1	59	1-1-1-1 (2)	2 12.9	•	24 3 : : : : :	36 : : : : : : :	48
1 -	00	SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist	0.76, 338.05	SPT 2	49	2-9-9-9 (18) 3	.2•	18			
2 -	. 0	becoming dense	1.52, 337.29	SPT 3	46	11-12-37- 40 (49)	.4•				49
3		becoming very dense	2.29, 336.52	SPT 4	67	31-28-28- 26 (56) 3	.5●				>>
		<b>SILT AND SAND:</b> Compact, brown, silt and sand, trace clay, moist	3.05, 335.76	SPT 5	100	18-14-12- 16 (26)	13.3	3●	26		
4 -		SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist	3.91, 334.90	MC5 6	76		11				
5 -	. 0	becoming very dense	4.57, 334.24	SPT 7	54	35-33-33- 34 (66)	6.4●			· · · · · ·	>>

Caving in the borehole was encountered at a depth of approximately 2.44 m (El. 336.37 m) below ground surface.

Bottom of borehole at 5.18 m, Elevation 333.63 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-23

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BHF**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 339.82 m

LOGGED BY: BRF

ORILLIN	IG EQ	UIPMENT: Geoprobe 7822DT SAM	MPLING METHO	<b>D</b> : <u>SPT</u>	/M0	C5					
Cm)	LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	ę	00 2 ⊗ POCKET I 00 18 ● MOIST	PENETROME 80 2 TURE CONTE	30 ETER (kPa) ⊗ 270 3 ENT (%) ●	40 60 48
^ ^	~~~ <u>~</u>	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (275 mm)  SILTY SAND: Very loose, dark brown, silty sand, some organics, moist	0.00, 339.82	SPT 1	67	1-2-1-1 (3)	3	19.9			:
1 = 1		becoming compact, brown, no organics	0.76, 339.06	SPT 2	59	4-6-7-6 (13)	8.8	13			
2		SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist  SILTY SAND: Dense, brown, silty sand, trace	1.65, 338.17 1.88, 337.94	SPT 3	75	14-27-18- 14 (45)	. 6.8•				45
3		gravel, moist becoming compact COARSE SAND: Compact, brown, coarse sand, trace gravel, moist	2.29, 337.53 2.46, 337.36	SPT 4	84	11-10-7- 10 (17) 2.	4●	17			
	9.	SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist	3.05, 336.77	SPT 5	100	9-11-13- 15 (24) 2.	<b>6●</b>		24		
4	0			MC5 6	100	1	6 <b>●</b>				
5 -		SILT AND SAND: Compact, brown, silt and sand, trace clay, moist	4.57, 335.25	SPT 7	100	13-8-11- 12 (19)	14	19 <b>9</b>			

Bottom of borehole at 5.18 m, Elevation 334.64 m.

BOREHOLE LOG2 25-111.GPJ CMT\_TEMPLATE\_2020-05-15.GDT 25-5-14



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING EQUIPMENT: Geoprobe 7822DT

**DRILLING DATE**: 25-4-17

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BHG**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 338.58 m

LOGGED BY: BRF

SAMPLING METHOD: SPT

				Щ	%	OW COUNTS (N VALUE)			▲ SPT N \	/ALUE ▲	
	일			7.5	≿	Ĭ Ŋ ij		10	20	30	40
(m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth,	SAMPLE TYPE NUMBER	RECOVERY	PL		⊗ POCK	ET PENETF	ROMETER (kP	'a)⊗
$\overline{}$			Elevation (m)	Ā	8	>>		90	180	270	360
				SAI	믮	3LC (1		<ul><li>MO</li></ul>	DISTURE CO	ONTENT (%)	
						н		12	24	36	48
=	$\sim\sim$	<b>TOPSOIL:</b> Loose, dark brown, silty organic topsoil, moist (350 mm)	0.00, 338.58	SPT	67	1-2-2-3	4				
=		<b>SILTY SAND:</b> Loose, dark brown, silty sand, with organics, moist	0.35, 338.23			(4)					:
1 =	0	SAND AND GRAVEL: Compact, brown, sand and gravel, some silt, trace clay, moist	0.76, 337.82	SPT 2	0	7-8-9-13 (17)		17	<b>.</b>		
- - 2 -		SILTY SAND: Compact, brown, silty sand, very moist	1.52, 337.06	SPT 3	100	6-9-8-15 (17)	9.1	17			
		<b>SILT AND SAND:</b> Dense, brown, silt and sand, trace clay, wet	2.29, 336.29	SPT	67	3-13-20- 20				33	
3 -	0	<b>SAND AND GRAVEL:</b> Dense, brown, sand and gravel, some silt, trace clay, moist	2.64, 335.94	4		(33)		16.3		/	 
=	<u> </u>	becoming compact	3.05, 335.53	0.55		14-11-12-		:	/	· .	
=		SILT AND SAND: Compact, brown, silt and sand, trace clay, moist	3.20, 335.38	SPT 5	100		7.7	:	23	:	:

Caving in the borehole was encountered at a depth of approximately 3.05 m (El. 335.53 m) below ground surface.

Bottom of borehole at 3.66 m, Elevation 334.92 m.



DRILLING CONTRACTOR: CMT Drilling Inc.

DRILLING DATE: 25-4-22

CMT Engineering Inc. 1011 Industrial Crescent, Unit 1 St. Clements, ON, N0B 2M0 Telephone: 519-699-5775

#### **BOREHOLE NUMBER BHH**

PAGE 1 OF 1

PROJECT: Audrey Meadows Phase 2

PROJECT ADDRESS: Victoria Street South

PROJECT LOCATION: Puslinch, ON

GROUND ELEVATION: 341.51 m

LOGGED BY: BRF

RILLI	NG EC	QUIPMENT: Geoprobe 7822DT SAN	IPLING METHO	<b>D</b> : <u>SP</u> 1	/MC	<u> </u>	
(m)	GRAPHIC LOG	MATERIAL DESCRIPTION	Depth, Elevation (m)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	▲ SPT N VALUE ▲  10 20 30 40  ⊗ POCKET PENETROMETER (kPa) ⊗  90 180 270 360
				SA	RE	) Brc	<ul> <li>MOISTURE CONTENT (%)</li> <li>12</li> <li>24</li> <li>36</li> <li>48</li> </ul>
1111111	~~~	TOPSOIL: Loose, dark brown, silty organic topsoil, moist (400 mm)  SILT AND SAND: Very loose, brown, silt and sand, trace clay, moist	0.00, 341.51	SPT 1	75	1-1-1-1 (2)	2
1 =		becoming compact	0.76, 340.75	SPT 2	100	6-7-5-7 (12) 2.:	3●
2		becoming fine becoming loose, wet  SAND AND GRAVEL: Loose, brown, sand and gravel, some silt, trace clay, moist	1.29, 340.22 1.52, 339.99 1.85, 339.66	SPT 3	87	4-4-5-6 (9)	15.4
3		SILT AND SAND: Compact, brown, silt and sand, trace clay, moist	2.29, 339.22	SPT 4	100	7-6-11-11 (17)	5.9
	.         <del> </del>	becoming very dense, wet	3.05, 338.46	SPT 5	62	50/0.13	13.5●
4 -		SAND AND GRAVEL: Very dense, brown, sand and gravel, some silt, trace clay, moist  SILT AND SAND: Very dense, brown, silt and sand, trace clay, moist  becoming wet	3.66, 337.85 3.84, 337.67 4.22, 337.29 4.24, 337.27	MC5 6	100		15.4●
5 -		becoming moist // becoming dense	4.57, 336.94	SPT 7	46	11-17-20- 27 (37)	10●

Bottom of borehole at 5.18 m, Elevation 336.33 m.

BOREHOLE LOG2 25-111.GPJ CMT\_TEMPLATE\_2020-05-15.GDT 25-5-14

### Appendix B Water Well Record Information

Ontar	8-/7 Ministry 10 and Clir	nate onang		i i	Tag#:A 21			903 0	ntario Wa	iter Resi	aurees Ai
Measurements red	corded in: 🔲	Vletric 💢 I	Imperial		9215378	3			Page		of
Vell Owner's l	a english programme and the second sections of the second second sections of the second second sections of the second sec			(4.5504.1657.4655)					Silvings)		
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lailing Address (S	treet Number/Nan	<i>5-EORG-E</i> ne)	z. K. G	1000 C	JONSTRUCTION Junicipality	Province	Postal Code		Telephone	No. (inc.	area code)
P.O. BOX 1	1805				GUELPH	6N	NIHT	AI:	5198	136	7680
Iell Location	cation (Street Nun	nber/Name)		17	Township		Lot		Concessio	ın	
	usy Law nicipality	,			Pushinc.	H	18-19		8		
				1				Provin		Postal	
TM Coordinates 2	ING-TON Zone Easting	, No	orthing		Municipal Plan and Sublo	t Number		Other	4110	NO	827
NAD   8   3	17569		8115	967	SUB LOT	/					
			nment Se	330000-0000000	ord (see instructions on the					Don	th (m/ft)
General Colour		non Material			ner Materials	Gen	eral Description	1			th ( <i>m/ft</i> ) To
BROWN	CLAY				-					0	10
FREY	CLAY SAN				BNES					10	30
Rown	رم هر ک	<u>ال</u> ار		GA	AUEL					30	76
BROWN	ROCA	<u> </u>				FRE	ACTURE	<u>D</u>		76	79
						F07	TAL DE	PTI	4	79F	
-											
D*-0/	41	Annular	Control of the second control of the second		Values Disast	Affect of collected	Results of W		d Testing aw Down		ecovery
Depth Set at (m/t From To	T)	Type of Sea (Material an			Volume Placed (m³/ft³)	After test of well yield  Clear and sand		Time	Water Lev	el Time	Water Lev
0 20	BEN	TONI	TE		A COLUMN TO THE	Other, specify_		(min) Static	(m/ft)	(min)	(m/ft)
	,,				The state of the s	If pumping discontinu	ed, give reason:	Level	5'		
								1	6	1	5
					1						
						Pump intake set at (n	n/ft)	2	6	2	5
Mathadias	Canatematica	Basevi Basevicavna	en and and entitle little	- Wali II		Pump intake set at (n. 30 F T Pumping rate (Vmin /		2	6	3	5 5
	Construction  Diamond	s □ Pul	blic	Well Us		30FT Pumping rate (Vmin /		-	6		5
Cable Tool Rotary (Convention	Diamono	<b>™</b> Doi	mestic	Comme	rcial Not used	30FT Pumping rate (Vmin / 156PM Duration of pumping		3	6	3	5 S
Cable Tool Rotary (Convention Rotary (Reverse) Boring	Diamono	Doi Live	mestic estock gation	Comme Municip Test Ho	rcial Not used	30FT Pumping rate (l/min/) 156PM Duration of pumping 1 hrs + 0 Final water level end	GPM) min	3 4 5	6	3 4	5 S 5
Cable Tool Rotary (Convention Rotary (Reverse) Boring Air percussion	Diamono  Diamono  Diamono  Diamono  Diriving  Digging	Doi Live Imig	mestic estock gation	Comme Municip Test Ho	rcial Not used al Dewatering le Monitoring	30 FT Pumping rate (l/min/- 156 PM Duration of pumpinghrs+ Final water level end	GPM) min of pumping (m/t)	3 4 5 10	6 6	3 4 5 10	5 5 5
Cable Tool Rotary (Conventic Rotary (Reverse) Boring Air percussion	Diamono  Diamono  Diamono  Diamono  Diriving  Digging	Doi Live Indi	mestic restock gation lustrial her, specify	Comme Municip Test Ho	rcial Not used al Dewatering le Monitoring	30FT Pumping rate (l/min/) 156PM Duration of pumping 1 hrs + 0 Final water level end	GPM) min of pumping (m/t)	3 4 5 10	6 6 6 6	3 4 5 10 15	5 5 5 5
Cable Tool Rotary (Conventic Rotary (Reverse) Boring Air percussion Cother, specify	Diamond Diamond Diving Diving Digging Digging Construction R Hole OR Material	Doi Live	mestic estock gation lustrial her, specify	Comme Municip Test Ho	roial Not used al Dewatering le Monitoring & Air Conditioning  Status of Well  Water Supply	30 F  Pumping rate (l/min / 15 G PM  Duration of pumping  I hrs + 0  Final water level end  G F F  If flowing give rate (l/m)  Recommended pumping	GPM) min of pumping (m/ft,	3 4 5 10 15 20	6 6	3 4 5 10 15 20	\$ \$ \$ \$ \$ \$ \$
Cable Tool Rotary (Conventic Rotary (Reverse) Borling Air percussion Cother, specify Inside Diameter (cm/in) Cable Tool	☐ Diamondonal) ☐ Jetting ☐ Driving ☐ Digging	Doi Live Ind Oth	mestic estock gation lustrial her, specify	Comme Municip Test Ho Cooling	roial Not used al Dewatering le Monitoring & Air Conditioning	30 FT Pumping rate (l/min /- 156 PM Duration of pumping 1 hrs + 0 Final water level end 6 FT If flowing give rate (l/m Recommended pumping	min of pumping (m/ti, min / GPM) p depth (m/ti)	3 4 5 10 15 20 25	6 6 6 6	3 4 5 10 15 20 25	5 5 5 5 5 5
Cable Tool Rotary (Conventic Rotary (Reverse) Boring Air percussion Cother, specify Inside Diameter (Com/in) Concr	Diamond Diamond Diamond Discription Diagong Diagong  DIAMOND D	Doi Live	mestic estock gation lustrial her, specify Depti	Comme  Municip  Test Hol  Cooling	roial Not used al Dewatering le Monitoring & Air Conditioning  Status of Well  Water Supply Replacement Well Test Hole Recharge Well	30 FT Pumping rate (l/min/- /56 PM Duration of pumping	min of pumping (m/ti, min / GPM) p depth (m/ti)	3 4 5 10 15 20	6 6 6 6	3 4 5 10 15 20	5 5 5 5 5 5 5
Cable Tool Rotary (Conventic Rotary (Reverse) Boring Air percussion Cother, specify Inside Diameter (cm/in) Cable Tool	Diamondonal) Jetting Dirving Digging Digging  Construction R Hole OR Material anized, Fibreglass, rete, Plastic, Steel)	Dolling Live Integrated India Other Cas Wall Thickness (cm/in)	mestic estock gation lustrial her, specify Depti	Comme  Municip  Test Hol  Cooling	roial Not used al Dewatering le Monitoring & Air Conditioning    Status of Well  Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or	30 FT Pumping rate (l/min / 15 G PM Duration of pumping	min of pumping (m/tt, min / GPM) o depth (m/tt) o rate	3 4 5 10 15 20 25	6 6 6 6	3 4 5 10 15 20 25	5 5 5 5 5 5
Cable Tool Rotary (Conventic Rotary (Reverse) Boring Air percussion Cother, specify Inside Diameter (cm/in) Cable Tool	Diamondonal) Jetting Dirving Digging Digging  Construction R Hole OR Material anized, Fibreglass, rete, Plastic, Steel)	Dolling Live Integrated India Other Cas Wall Thickness (cm/in)	mestic estock gation lustrial her, specify Depti	Comme  Municip  Test Hol  Cooling	roial Not used al Dewatering le Monitoring & Air Conditioning  Status of Well  Water Supply Replacement Well Test Hole Recharge Well Dewatering Well	30 FT Pumping rate (l/min/ /56 PM Duration of pumping / hrs + O Final water level end / FT  If flowing give rate (l/m  Recommended pumping / GPM)  Recommended pumping / GPM  Well production (l/min/ /54 C-PM	min of pumping (m/tt, min / GPM) o depth (m/tt) o rate	3 4 5 10 15 20 25 30	6 6 6 6 6 6 6 6	3 4 5 10 15 20 25 30	5 5 5 5 5 5 5
Cable Tool Rotary (Conventic Rotary (Reverse) Boring Air percussion Cother, specify Inside Diameter (Catlva) Concrete Concrete Concrete Convention Convent	Diamondonal) Jetting Dirving Digging Digging  Construction R Hole OR Material anized, Fibreglass, rete, Plastic, Steel)	Dolling Live Integrated India Other Cas Wall Thickness (cm/in)	mestic estock gation lustrial her, specify Depti	Comme  Municip  Test Hol  Cooling	roial Not used al Dewatering le Monitoring & Air Conditioning    Status of Well  Status of Well  Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction)	30 FT Pumping rate (l/min / 15 G PM Duration of pumping	min of pumping (m/tt, min / GPM) o depth (m/tt) o rate	3 4 5 10 15 20 25 30 40	6 6 6 6 6 6 6 6	3 4 5 10 15 20 25 30 40	5 5 5 5 5 5 5 5 5
Cable Tool Rotary (Conventic Rotary (Reverse) Rotary (Rev	Diamondonal) Jetting Dirving Digging Digging  Construction R Hole OR Material anized, Fibreglass, rete, Plastic, Steel)	Doi Live in ing ing ing ing ing ing ing ing ing	mestic estock gation justinal her, specify _ sing     Depti From	Comme  Municip  Test Hol  Cooling	roial Not used al Dewatering le Monitoring & Air Conditioning    Status of Well  Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply	Pumping rate (l/min/)  /56 PM  Duration of pumping  Ins + O  Final water level end  GFT  If flowing give rate (l/min/)  Recommended pumping  Recommended pumping  //min/GPM  Well production (l/min/)  /5 CPM  Disinfected?	min of pumping (m/tt, min / GPM) o depth (m/tt) o rate	3 4 5 10 15 20 25 30 40 50 60	6 6 6 6 6 6 6 6 6	3 4 5 10 15 20 25 30 40 50	5 5 5 5 5 5 5 5 5
Cable Tool Rotary (Conventic Rotary (Reverse) Rotary (Galva (Confin) Concrete Concrete Control C	Diamondonal) Jetting Diamondonal) Jetting Diring Digging  AR ROTAR  Construction R  Hole OR Material anized, Fibreglass, ete, Plastic, Steel)  STEEL  Construction R  Material	ecord - Cas  Wall Thickness (cm/in)  -/88	mestic estock gation justrial her, specify _ sing Depti From  + 2	Comme	roial Not used al Dewatering le Monitoring & Air Conditioning & Air Conditioning    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	Pumping rate (l/min/)  /56 PM  Duration of pumping  Ins + O  Final water level end  GFT  If flowing give rate (l/min/)  Recommended pumping  Recommended pumping  //min/GPM  Well production (l/min/)  /5 CPM  Disinfected?	min of pumping (m/t) nin / GPM) p depth (m/t) p rate 1 Map of W	3 4 5 10 15 20 25 30 40 50 60	6 6 6 6 6 6 6 6 6 6	3 4 5 10 15 20 25 30 40 50 60	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Cable Tool Cable Tool Rotary (Conventic Rotary (Reverse) Rotary (Galva (Confin) Concrete Concrete Concrete Control Contr	Diamondonal) Jetting Diring Diaging Diaging Construction R Hole OR Material anized, Fibreglass, etc. Plastic, Steel)	Doi Live in ing ing ing ing ing ing ing ing ing	mestic estock gation justrial her, specify _ sing Depti From  + 2	Comme	roial Not used al Dewatering le Monitoring & Air Conditioning    Status of Well  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	Pumping rate (l/min/)  / 5 6 PM  Duration of pumping	min of pumping (m/t) nin / GPM) p depth (m/t) p rate 1 Map of W	3 4 5 10 15 20 25 30 40 50 60	6 6 6 6 6 6 6 6 6 6	3 4 5 10 15 20 25 30 40 50 60	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Cable Tool Cable Tool Rotary (Conventice) Rotary (Reverse) Rotary (Reverse) Rotary (Reverse) Rotary (Reverse) Rotary (Reverse) Rotary (Reverse) Rotary (Galve (Condin) Concrete Condinia Concrete Concret	Diamondonal) Jetting Diamondonal) Jetting Diring Digging  AR ROTAR  Construction R  Hole OR Material anized, Fibreglass, ete, Plastic, Steel)  STEEL  Construction R  Material	ecord - Cas  Wall Thickness (cm/in)  -/88	mestic estock gation justinal her, specify _ sing     Depti From	Comme	roial Not used al Dewatering le Monitoring & Air Conditioning    Status of Well  Devatering Well  Dewatering Well  Dewatering Well  Deservation and/or Monitoring Hole  Alteration (Construction)  Abandoned, Insufficient Supply  Abandoned, Poor Water Quality  Abandoned, other, specify	Pumping rate (l/min/)  / 5 6 PM  Duration of pumping	min of pumping (m/t) nin / GPM) p depth (m/t) p rate 1 Map of W	3 4 5 10 15 20 25 30 40 50 60	6 6 6 6 6 6 6 6 6 6 6 action	3 4 5 10 15 20 25 30 40 50 60	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Cable Tool Cable Tool Rotary (Conventice) Rotary (Reverse) Rotary (Reverse) Rotary (Reverse) Rotary (Reverse) Rotary (Reverse) Rotary (Reverse) Rotary (Galve (Condin) Concrete Condinia Concrete Concret	Diamondonal) Jetting Diamondonal) Jetting Diring Digging  AR ROTAR  Construction R  Hole OR Material anized, Fibreglass, ete, Plastic, Steel)  STEEL  Construction R  Material	ecord - Cas  Wall Thickness (cm/in)  -/88	mestic estock gation justinal her, specify _ sing     Depti From	Comme	roial Not used al Dewatering le Monitoring & Air Conditioning    Status of Well  Status of Well  Status of Well  Status of Well  Pacharge Well Dewatering Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other,	Pumping rate (l/min/)  / 5 6 PM  Duration of pumping	min of pumping (m/t) nin / GPM) p depth (m/t) p rate 1 Map of W	3 4 5 10 15 20 25 30 40 50 60	6 6 6 6 6 6 6 6 6 6 6 action	3 4 5 10 15 20 25 30 40 50 60	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
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tell Owner's Informing Name Inling Address (Street N	Last Name/Orgs	Estan Ha	m3 50 uyonalky Bockwoods	on N	08210519	Well Constructed by Well Owner is No. (inc. area code) BSG 965 57
odress of Well Location  OLD FR  Ounty/District/Municipal  LUELLANC  TM Coordinates 20ne	FTON	ci	which Pusting in the property of the property	Number	B-19 8 Province Ontario	Postal Code
NAD 8 3	ock Materials/Abandon	ment Sealing Recor	rd (see instructions on the or Materials		heactiotion	Depth (nVft)
Beneral Colour	Most Common Meterial	And the second section is not been as a second	ES-SAND	To the second se		0 30
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, Un/			District - 1	PRACTU	red	10 30
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e ence	Commission on the William	Care California			e, maritam no.	4 4 mmm 40
. 1		ARREST TOTAL	**************************************	Ton	AL DEPTH	50M
			· mom			
				Res	rults of Well Yield Testi	ing
Depth Set at (m/ft)	Yype of Seat	ant Used	Volume Placed (m³/ft²)	After leat of well yield, wat	The state of the s	n Recovery
From Te	(Material and	ber	Minn	Cither, specify	(min) (mi	
0 20	BENTON	2115		If pumping discontinued.	tive reason: Level	
	and the community of th	*********		Pump intake set at (m/ft)	1 /3	1 /3.
- 1	- / Comment - which		-	30F7	3 /4	3 12
Method of Cor	netruction	Well U		Pumping rate (Ilmin / GPN		1 4 12
Cable Tool Rolary (Conventional)	Diamond Dipub		Dewatering	Duration of pumping	5 14	5 17
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Air percussion Au	O Dinde			If flowing give rate (9min)	SPU) 15	4 15 12
The second second	netruction Record - Cas		Statue of Welt		20 /	4 20 12
Irelide Open Hole Diameter (Galvanias	e OR Material ed, Fibraglass, Plestic, Steel (crofn)	Depth (m/ft) From 1 To	☐ Water Supply ☐ Replacement Well	30 FT	25 /	4 25 /2
(cm/ln) Concrete,		+2 49	Test Hole Recharge Well	Recommended pump is (I/min/GPM)	30	4 30 /2
64 574	FEL -188	49 50	Chi Designous A sales	Val reduction (Vinteral	40	4 40 /2
2.64	MOLE	77 50	Monitoring Hole  Alteration	12+ GPM	50	4 50 /2
6/8 alter				I describe as a set of the		- and a second s
	armeter to the second	10-20 m	(Construction) Abandoned.	Diginfactor?	60	4 80 /2
		near .	(Construction)  Abandoned. Insufficient Supply Abandoned, Poor	MYAN T. NO.	Map of Well Location	
Cutakida Diarradiar (Diantic Go	Manager of the Company	Decil (nvm) Prum Ya	(Construction)  Abandoned. Insufficient Supply Abandoned, Poor Water Quality Abandoned. other.	MYAN T. NO.	60	
Co Outside M	onstruction Record - Sci	Depth (m/ff)	(Construction) Abandoned Insufficient Supply Abandoned, Poor Water Quality Abandoned, other apecity	MYAN T. NO.	Map of Well Location	
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Cutaide Dismetter (cm/in)  Water found at Depth Water found at Depth	Mater Details  Kind of Water:Treeh  Cother, specify  Kind of Water:Treeh	Proin Yo  Proin Yo  Unlested From	(Construction)  Abandoned, Insufficient Supply Abandoned, Poor White Quality Abandoned, other specify  Other specify  Hole Diameter epth (m/ft)  Diameter To (omfin)	Pieses provide a map	Map of Well Location	
Cutaide Dismellor (cnvin)  Water found at Depth Water found at Depth (mit) [ Gas (mit) [ Gas	water Details   Kind of Water   Fresh   Cher. specify   Cher.	Proin Yo    Continued   Contin	(Construction)  Abandoned, Insufficient Supply Abandoned, Poor Wheter Quality  Abandoned, other specify  Other specify  Hole Diameter epth (m/ft)  ZO ZO	Pieses provide a map	Map of Welt Location below following matruction	
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Water found at Depth (m/t) [] Gas Water found at Depth (m/t) [] Gas Water found at Depth (m/t) [] Gas	Water Details   Kind of Water   Fresh   City   City	Poor (mm) Proin To  Contested Dispressed Contested Prom Contested Zo  Unitested Zo  Unitested Zo  Unitested Zo  Unitested Zo  Unitested Zo  Unitested Zo	(Construction)  Abandoned, Insufficient Supply Abandoned, Supply Abandoned, Poor Whiter Quality  Abandoned, other specify  Other specify  Hole Diameter epth (m/h)  Johnston Well Contractor's Licence N  Johnston Municipality	Please provide a map	Map of Welt Location below following matruction	
Contaide Diameter (cm/n) (Plastic, Or Water found at Depth (m/n) [] Gas Water found [] Gas Water found [] Gas Water found [] Gas Water found [	Water Details  Kind of Water: Fresh  Cother specify  Kind of Water: Fresh  Cother specify  Kind of Water: Fresh  Cother specify  Well Contractor and Wele  Contractor	Dech (mm) From Yo  Unlested From  [] Unlested ZO  [] Unlested ZO  Il Technician inform	(Construction)  Abandoned, Insufficient Supply Abandoned, Poor Whiter Quality Abandoned, Other Specify  Criter: specify  Hole Diarreter epin (m/ft)  20  60  10  10  10  10  10  10  10  10  1	Pieses provide a map	Map of Welt Location below following matruction	
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Chalde Diameter (cm/n) (Plastic, or (cm/n) (Plastic, or (cm/n)) (Plastic	Water Details   Kind of Water: Treeh   Coher. specify   Kind of Water: Fresh   Coher.	Dech (mm) From Yo  Unlested From  [] Unlested ZO  [] Unlested ZO  Il Technician inform	(Construction)  Abandoned, Insufficient Supply Abandoned, Poor Whiter Quality Abandoned, other specify  Criter: specify  Mole Diamneter epith (m/ft)  Confin)  Diameter Confin)  Diameter Diameter Epith (m/ft)  Confin)  Diameter Diameter Epith (m/ft)  Diameter Diameter Epith (m/ft)  Diameter Diameter Epith (m/ft)  Diameter Diam	Please provide a map  Please provide a map  Commente:  West owner's passer provide a map	Map of Welt Location below following matruction  RCLEV LASE  Bockege Cellwared	Victory Ro.S.

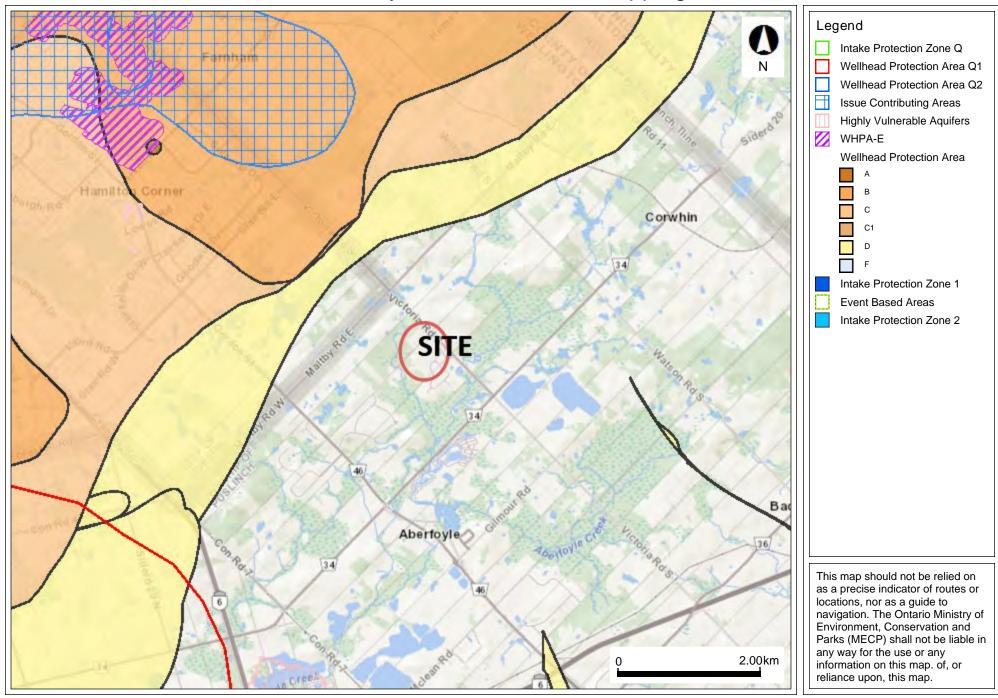
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General C			mon Material			ther Materials		eneral Description	on	T	Dept	th (m/ft)
BROW	IN	CLA	y		57	ONES					0	13
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Donth C	et et /- /e		Annular Type of Soc		4	1/61	Affect of the second	Results of V			-	
From	Set at (m/ft		Type of Sea (Material ar	nd Type)		Volume Placed (m³/ft³)	After test of well yiel	d free	Time	Water Le		ecovery Water Le
0	20	BEN	STOR	SITE	5		Other, specify		(min)	(m/ft)	(min)	(m/ft)
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Cable To	ool	☐ Diamond			Comm	ercial Not used	30 F Pumping rate (l/min	/GPM)				1
Cable To	ool Convention	☐ Diamond	₽ Do	ublic omestic		ercial Not used Dewatering	Pumping rate (I/min / 15 G-P/) Duration of pumping / hrs + 0	/GPM)	3 4 5		3	+
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General Co			non Materia			ner Materials	General D	escription			Dep	oth (m/ft)
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Donth C-	et at (m/ft)	1	Annular Type of So	r Space alant Used		\/ali Di		ults of We		-		
From	To		(Material a	nd Type)		Volume Placed (m³/ft³)	After test of well yield, water Clear and sand free	r was:		aw Down Water Lev		ecovery Water Leve
0	20	BEA	STON	TE			Other, specify		(min) Static	(m/ft)	(min)	(m/ft)
							If pumping discontinued, give	/e reason:	Level	30ET		
									1		1	30°
							Pump intake set at (m/ft)	-	2		2	
24.44							50 FT Pumping rate (l/min / GPM)		3		3	
Wetn												
		Diamond	ПР	ıblic	Well Us				4		4	
Cable Too	ol Conventiona	Diamond  Jetting	Do	omestic	☐ Comme	rcial Not used	15 G-PM Duration of pumping		4		4	
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Cable Too Rotary (C. Rotary (R. Rotary (R. Boring Air percus Cother, spe  Inside Diameter (cm/in)  C'/g  Outside Diameter (cm/in)  Water found (m/ Water found (m/ Business Ad	Conventional Reverse)  Ssion  Concrete  Open Ho (Galvaniz Concrete  STA  OPE)  (Plastic, Gi  d at Depth  //ft)   Gas d at Depth	Diamond Diamond Digging Diggin	ecord - Cas  Wall Thickness (cm/in)  Slot No.  Siot No.  Afresh cify  Fresh cify  Trand Well  Carry Do	prestic prestic prestock gatton dustrial ther, specify sing Dept From + 2 // 2 Preen Dept From Untested Untested Untested Untested Untested	Comme Municip Test Hol Cooling  h (m/ft) To  //2 /// // // Dept From  Dept From Municip To  // La  // La  // Municip Test Hol Cooling	rcial Not used al Dewatering e Monitoring & Air Conditioning  Status of Well  Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Doservation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, Other, specify  Other, specify  Iole Diameter In (m/ft) Diameter To Com/in)  20 10" 177 6/s"	Duration of pumping	M)  n (m/ft)  Map of Webow following	5 10 15 20 25 30 40 50 60 eill Loce	ation uctions on actions on act 78	5 10 15 20 25 30 40 50 60	<b>→</b>
Cable Too Rotary (Common Rotary (Rotary (Rotar	Conventional Reverse)  ssion Air Co Co Open Ho (Galvania Concrete STA)  OPEN  (Plastic, Gi  d at Depth  //ft)  Gas d at Depth  //ft  Gas d   //ft	Diamond Diamond Diguing Digging Digging Digging Digging Diguing Digging Diggin	ails Slot No.  ails Fresh city Fresh city Business Rule Rule Rule Rule Rule Rule Rule Rule	prestic vestock gation and sustrial ther, specify sing Depti From P 2 // 2 Depti From De	Comme Municip Test Hol Cooling  h (m/ft) To  /// // // // // // // // // // // //	rcial Not used al Dewatering e Monitoring & Air Conditioning  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  Iole Diameter In (m/ft) Diameter (cm/in)  20 10" 117 6/8"  Ion III Contractor's Licence No. 7 3 8 5 5 Inicipality ATERILOO	Duration of pumpinghrs +min Final water level end of pum	M)  n (m/ft)  Map of Webow following	5 10 15 20 25 30 40 50 60 eill Loce	ation uctions on actions on act 78	5 10 15 20 25 30 40 50 60	<b>→</b>
Cable Too Rotary (Common Rotary (Rotary (Rotar	Conventional Reverse)  ssion Air Co Co Open Ho (Galvania Concrete STA)  OPEN  (Plastic, Gi  d at Depth  //ft)  Gas d at Depth  //ft  Gas d   //ft	Diamond Diamond Diguing Digging Diggin	ails Slot No.  ails Fresh city Fresh city Business Rule Rule Rule Rule Rule Rule Rule Rule	prestic vestock gation and sustrial ther, specify sing Depti From P 2 // 2 Depti From De	Comme Municip Test Hol Cooling  h (m/ft) To  /// // // // // // // // // // // //	rcial Not used al Dewatering e Monitoring & Air Conditioning  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  Iole Diameter In (m/ft) Diameter (cm/in)  20 10" 117 6/8"  Ion III Contractor's Licence No. 7 3 8 5 5 Inicipality ATERILOO	Duration of pumping	M)  In (m/ft)  Map of Webow following	5 10 15 20 25 30 40 50 60 ell Loc.	ALAI Minis	5 10 15 20 25 30 40 50 60	→ ·
Cable Too Rotary (Common Rotary (Rotary (Rotar	Conventional Reverse)  ssion Air Co Co Open Ho (Galvaniz Concrete STA)  Co (Plastic, Galvaniz	Diamond Diamond Diguing Digging Digging Digging Digging Diguing Digging Diguing Diguin	alis  Slot No.  Slot No.  alis  Fresh cify  Fresh cify  Business  Business	prestic vestock igation identification in the content of the conte	Comme Municip Test Hol Cooling  h (m/ft) To  /// // // // // // // // // // // //	roial Not used al Dewatering e Monitoring & Air Conditioning  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, Oper Water Ouality Other, specify  Iole Diameter In (m/ft) Diameter (cm/in)  2.0 10"  117 6/3"  Ion III Contractor's Licence No. 7 3 8 3 5 Inicipality ATERILOO  First Name)	Duration of pumping	Map of Webow following	5 10 15 20 25 30 40 50 60 60 9 3	ation uctions on actions on act and act	5 10 15 20 25 30 40 50 60	→ ·

### Appendix C Source Protection Information

#### **Audrey Meadows WHPA Mapping**

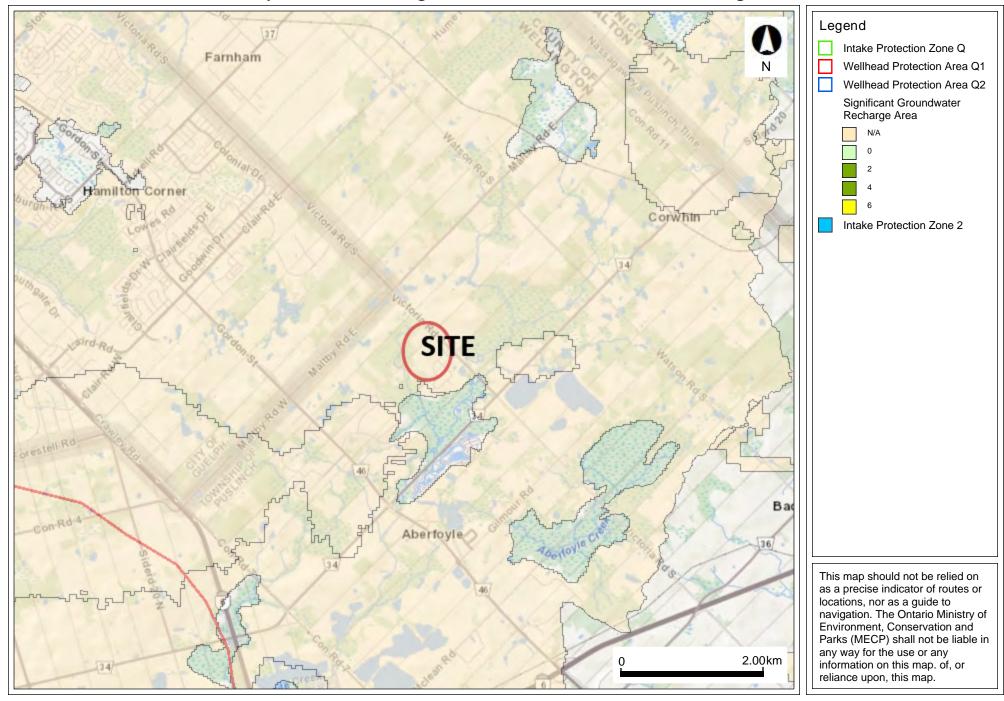




Map Created: 8/1/2025

Map Center: 43.49312 N, -80.15139 W

#### Audrey Meadows Significant Groundwater Recharge Area

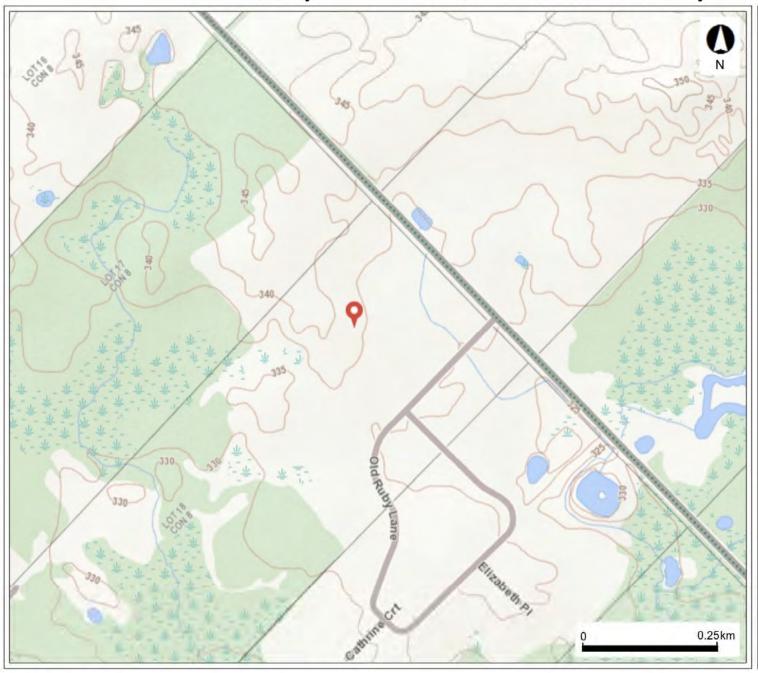




Map Created: 8/1/2025

Map Center: 43.49312 N, -80.15139 W

#### **Audrey Meadows Source Protection Summary**



#### Legend

#### Location Information

Zoom in to confirm your location and results

Latitude: 43.49311 Longitude: -80.14681

UTM Zone: 17
Easting: 568983.74 Northing: 4815929.22
Upper Tier Municipality: COUNTY OF WELLINGTON
Lower Tier Municipality: TOWNSHIP OF PUSLINCH
Township Concession and Lot: PUSLINCH LOT 18 CON
8

Assessment Parcel Address: 27 Old Ruby Lane
Assessment Roll #: 23010000060220100000
MECP District: Guelph
MECP Region: West Central Region

Source Protection Details for Location

#### Source Protection Area, Grand River

Wellhead Protection Area No

Wellhead Protection Area (WHPA E) No

Issue Contributing Area: **No**Significant Groundwater Recharge Area: **Yes**: score is

/A.

Highly Vulnerable Aquifer: No Event Based Area: No

Wellhead Protection Area Q1: No Wellhead Protection Area Q2: No

Intake Protection Zone Q: No

Information is current as of June 16, 2025

This map should not be relied on as a precise indicator of routes or locations, nor as a guide to navigation. The Ontario Ministry of Environment, Conservation and Parks (MECP) shall not be liable in any way for the use or any information on this map. of, or reliance upon, this map.



## Appendix D Study Scope Information

#### Re: Audrey Meadows - Water Supply Assessment

From: Stan Denhoed (sdenhoed@hardenv.com)

To: robstoveljr@outlook.com

Cc: jbrotherston@puslinch.ca; apentney@rogers.com; audreymeadowsItd@hotmail.com; dgood@oakbridge.net; stovel.associates@outlook.com;

pziegler@tritoneng.on.ca; choytfox@puslinch.ca

Date: Thursday, June 12, 2025 at 07:30 a.m. EDT

I will have to review our previous comments regarding nitrate study but the well testing approach is sound. Thank you.

#### Get Outlook for iOS

From: Rob Stovel Jr. <robstoveljr@outlook.com>

Sent: Tuesday, June 10, 2025 4:05:50 PM

To: Stan Denhoed <sdenhoed@hardenv.com>

**Cc:** jbrotherston@puslinch.ca <jbrotherston@puslinch.ca>; Andrew Pentney <apentney@rogers.com>; George. R. Good <audreymeadowsltd@hotmail.com>; Derek Good <dgood@oakbridge.net>; Rob Stovel <stovel.associates@outlook.com>; Paul Ziegler cpregler@tritoneng.on.ca>; choytfox@puslinch.ca

Subject: Audrey Meadows - Water Supply Assessment

Good afternoon Stan,

We are providing a work plan to complete a water supply assessment, in accordance with MECP Procedure D-5-5, at the proposed northern expansion of the Audrey Meadows Subdivision. We note that the Nitrate Impact Analysis and Water Supply Assessment previously provided for the expansion area (December 2021) addressed water supply at the site by referencing wells within the existing subdivision, however we understand further testing is required.

As the site is less than 15 hectares, drilling and testing a total of 3 wells would be are needed to satisfy Procedure D-5-5. It is our understanding that Audrey Meadows Ltd. would arrange for 3 wells to be installed, developed and then pump tested (6 hours each) according to the applicable regulations.

The first step would be to consult with the Township (likely including Harden Environmental) to determine expectations. This step would refine the study scope of work and well construction requirements.

- Review water well records and water supply status;
- Pre to post-test water level monitoring for selected observation wells at the site;
- Pump test supervision and monitoring at each of the newly constructed wells;
- Water quality sampling at each of the newly constructed wells at the end of each test;
- Data compilation and reporting as per Procedure D-5-5 requirements.

Please let me know if you have any questions or concerns (please copy Andrew as well).

Thank you,

Rob Stovel Jr.
Planner
519-949-0269
Stovel and Associates Inc.

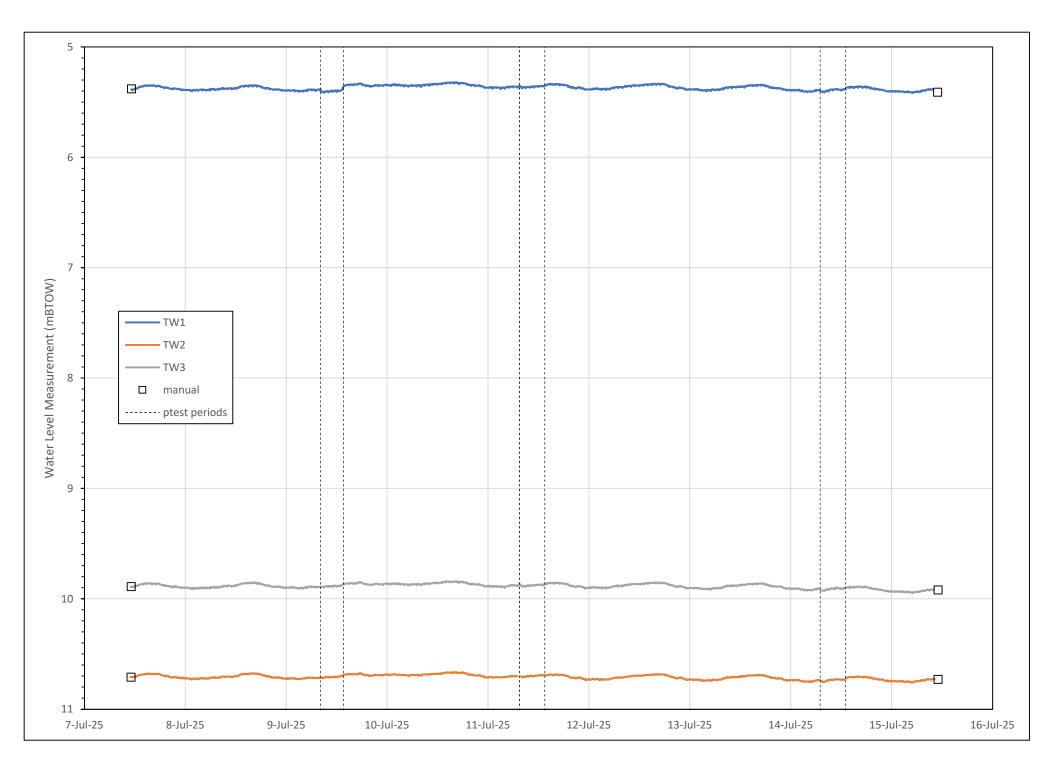


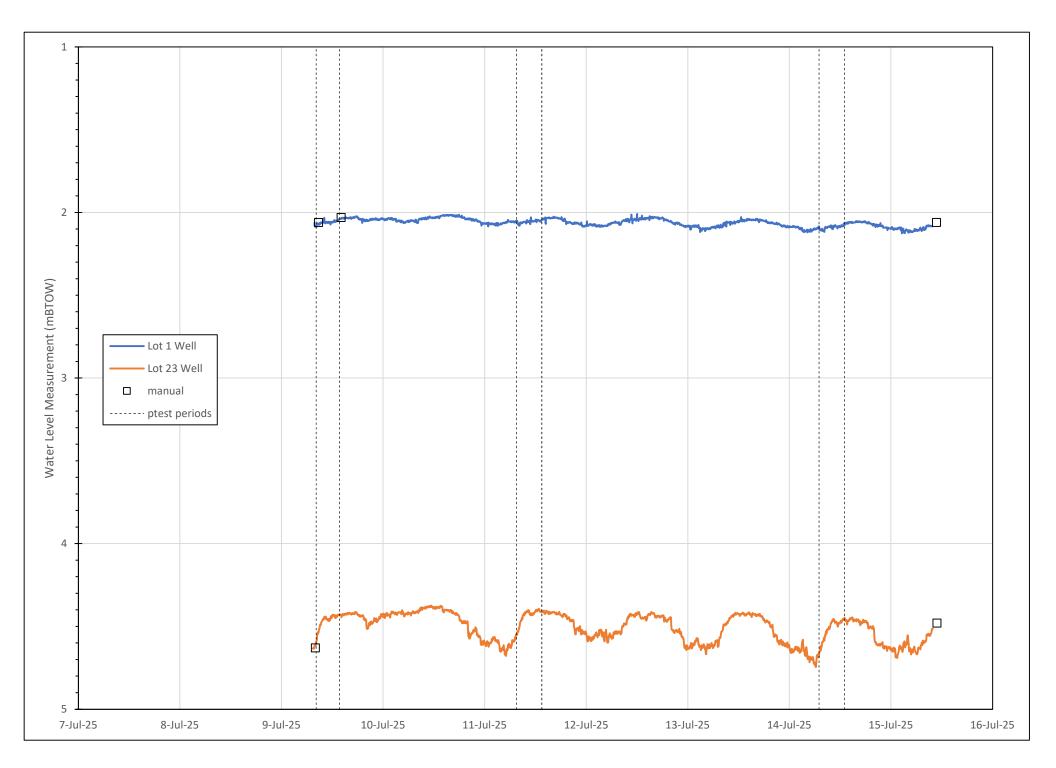
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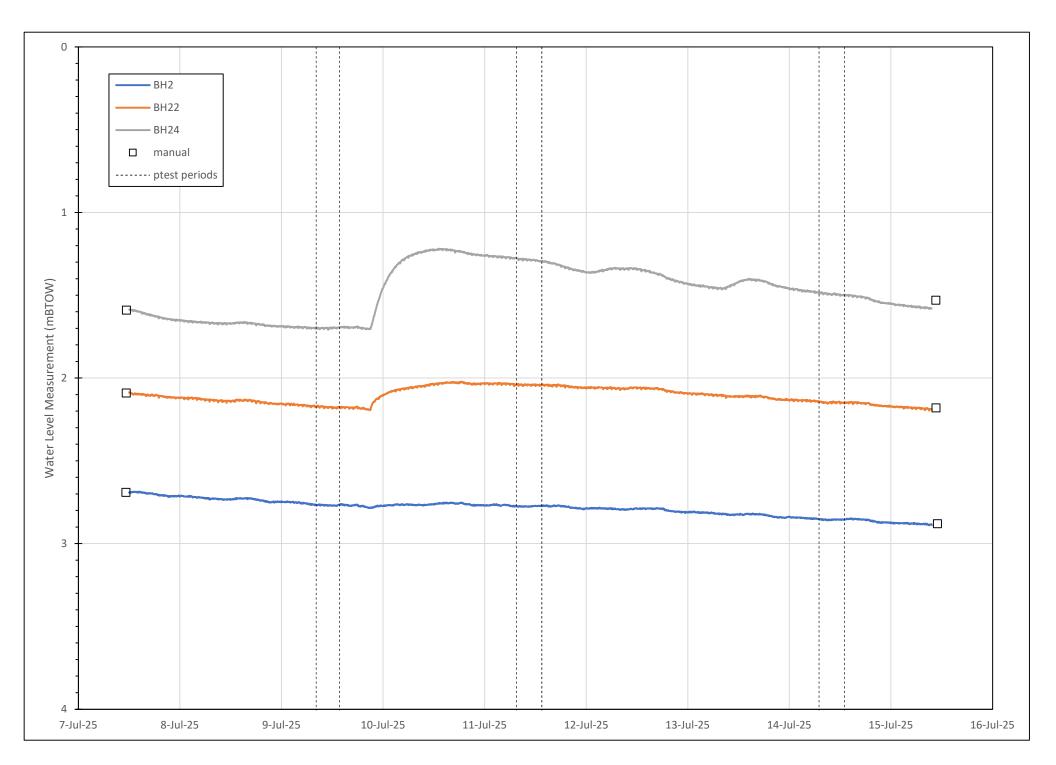
This message is intended to be confidential and solely for the addressee. If you received this e-mail in error, please delete it and advise us at notifier at stovel.associates@outlook.com

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# Appendix E Water Level Monitoring Summary







# Appendix F Test Well Water Quality Sampling Results

		Ontario Drink	ing Water Reg	ulation (JAN, 20	20) - ONDWS	AUI	DREY MEADO	OWS
		Schedule 1 (Microbiological)						
		and 2 (Chemic	cal) Standards			WELL 4	WELL 18	WELL 12
Sample Name		(JAN,	2020)	Guidelin		(TW1)	(TW2)	(TW3)
Sampling Date			Warning Limit		Warning Limits	09-07-2025	11-07-2025	14-07-2025
Anions and Nutrients	Min. LOR			Lower Upper				
Ammonia, total (as N) mg/L	0.0050					0.0438	<0.0050	<0.0050
Chloride mg/L	0.50			<=250		32.3	30.2	33.1
Fluoride mg/L	0.020	<=1.5				0.070	0.077	0.065
Nitrate (as N) mg/L	0.020	<=10				1.04	0.883	1.20
Nitrite (as N) mg/L	0.010	<=1				<0.010	<0.010	<0.010
Sulfate (as SO4) mg/L	0.30			<=500		19.9	25.0	20.0
Microbiological Tests								
Coliforms, Escherichia coli [E. coli] MPN/100mL	1	<1				1	<1	<1
Coliforms, total MPN/100mL	1	<1				165	3	6
Physical Tests								
Alkalinity, total (as CaCO3) mg/L	1.0			>=30 <=500		297	308	302
Colour, true CU	2.0			<=5		<2.0	<2.0	<2.0
Hardness (as CaCO3), from total Ca/Mg mg CaCO3/	0.50			>=80 <=100		349	349	365
pH pH units	0.10			>=6.5 <=8.5		7.56	8.29	7.94
Solids, total dissolved [TDS] mg/L	20			<=500		389	360	396
Turbidity NTU	0.10			<=5		1.03	1.41	1.54
Total Metals								
Aluminum, total μg/L	10			<=100		<10	<10	<10
Antimony, total μg/L	0.60	<=6				<0.60	<0.60	<0.60
Arsenic, total μg/L	1.0	<=10				<1.0	<1.0	<1.0
Barium, total μg/L	10	<=1000				72	77	64
Beryllium, total μg/L	1.0	- 77				<1.0	<1.0	<1.0
Bismuth, total µg/L	1.0					<1.0	<1.0	<1.0
Boron, total µg/L	50	<=5000				<50	<50	<50
Cadmium, total µg/L	0.10	<=5				0.14	<0.10	0.11
Calcium, total mg/L	0.50					84.4	84.4	89.3
Cesium, total µg/L	0.10					<0.10	<0.10	<0.10
Chromium, total µg/L	1.0	<=50				<1.0	<1.0	<1.0
Cobalt, total µg/L	0.50					<0.50	<0.50	<0.50
Copper, total µg/L	1.0			<=1000		4.2	1.6	1.2
Iron, total µg/L	50			<=300		74	124	179
Lead, total μg/L	1.0	<=10				<1.0	<1.0	<1.0
Lithium, total µg/L	100					<100	<100	<100
Magnesium, total mg/L	0.50					33.6	33.6	34.5
Manganese, total μg/L	1.0			<=50		4.7	5.2	2.7
Molybdenum, total μg/L	1.0					<1.0	<1.0	<1.0
Nickel, total µg/L	2.0					<2.0	<2.0	<2.0
Phosphorus, total mg/L	0.050					<0.050	<0.050	<0.050
Potassium, total mg/L	1.0					1.6	1.3	1.4
Rubidium, total µg/L	2					<2	<2	<2
	1.0	<=50				<1.0	<1.0	<1.0
Silicon, total µg/L	1000					5800	6200	5700
Silver, total μg/L	0.10					<0.10	<0.10	<0.10
Sodium, total mg/L	0.50	<=20		<=200		18.0	16.6	19.1
Strontium, total µg/L	1.0	-				107	106	104
Sulfur, total µg/L	500					8110	9010	7980
Tellurium, total μg/L	1.0					<1.0	<1.0	<1.0
Thallium, total µg/L	0.30					<0.30	<0.30	<0.30
Thorium, total µg/L	1.0					<1.0	<1.0	<1.0
Tin, total μg/L	1.0					3.0	<1.0	<1.0
	2.0					<2.0	<2.0	<2.0
Tungsten, total µg/L	10					<10	<10	<10
Uranium, total µg/L	2.0	<=20				<2.0	<2.0	<2.0
Vanadium, total μg/L	1.0					<1.0	<1.0	<1.0
Zinc, total µg/L	3.0			<=5000		153	109	139
Zirconium, total µg/L	4.0			1 2 2 3 3		<4.0	<4.0	<4.0
Evaluations	Disclaime	rs	1	1	i			

Evaluations

Disclaimers

Within Limit

Within Warning Limit

**Exceeds Limit** 

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



costas.farassoglou@alsglobal.com

### **CERTIFICATE OF ANALYSIS**

Work Order : WT2518238

Client : Groundwater Science Corp. Laboratory : ALS Environmental - Waterloo

Contact : Andrew Pentney : Costas Farassoglou Address : 465 Kingscourt Drive Unit 2 : Address : 60 Northland Road,

ddress : 465 Kingscourt Drive Unit 2 Address : 60 Northland Road, Unit 1
Waterloo Ontario Canada N2K 3R5 Saddress : 60 Northland Road, Unit 1
Waterloo ON Canada N2V 2B8

Telephone : 519 746 6916 E-mail

 Project
 : AUDREY MEADOWS
 Telephone
 : 613 225 8279

 PO
 : --- Date Samples Received
 : 09-Jul-2025 15:20

C-O-C number : ---- Date Analysis Commenced : 10-Jul-2025 Sampler : Dave Nahrgang Issue Date : 15-Jul-2025 16:54

Site : ----

Quote number : SOA 2025 - WT21-GWSC100-001

No. of samples received : 1
No. of samples analysed : 1

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

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

 Melissa Freeman
 Metals, Waterloo, Ontario

Nik Perkio Inorganics, Waterloo, Ontario

Nik Perkio Metals, Waterloo, Ontario

Ruby Sujeepan Microbiology, Waterloo, Ontario

Page: 1 of 5 alsglobal.com

Work Order : WT2518238

Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



#### **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).

Unit	Description
CU	colour units (1 cu = 1 mg/l pt)
mg CaCO□/L	milligrams of CaCO□ per litre
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
μg/L	micrograms per litre

<sup>&</sup>lt;: less than.

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.

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.

<sup>&</sup>gt;: greater than.

Work Order : WT2518238
Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



# Analytical Results

Sub-Matrix: Drinking Water (Matrix: Water)  Client sample ID					WELL 4 				
Client sampling date / time (					09-Jul-2025 14:30				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2518238-001				
					Result				
Physical Tests									
Alkalinity, total (as CaCO3)		E290/WT	1.0	mg/L	297				
Colour, true		E329-L/WT	2.0	CU	<2.0				
Hardness (as CaCO3), from total Ca/Mg		EC100A/WT	0.50	mg CaCO□/L	349				
рН		E108/WT	0.10	pH units	7.56				
Solids, total dissolved [TDS]		E162/WT	10	mg/L	389 DLDS				
Turbidity		E121/WT	0.10	NTU	1.03				
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	0.0438				
Chloride	16887-00-6	E235.CI/WT	0.50	mg/L	32.3				
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	0.070				
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	1.04				
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.010				
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	19.9				
Microbiological Tests									
Coliforms, Escherichia coli [E. coli]		E010/WT	1	MPN/100 mL	1				
Coliforms, total		E010/WT	1	MPN/100 mL	165				
Total Metals									
Aluminum, total	7429-90-5	E432/WT	10	μg/L	<10				
Antimony, total	7440-36-0	E432/WT	0.60	μg/L	<0.60				
Arsenic, total	7440-38-2	E432/WT	1.0	μg/L	<1.0				
Barium, total	7440-39-3	E432/WT	10	μg/L	72				

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Work Order : WT2518238
Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



# Analytical Results

CAS   CAS	Sub-Matrix: Drinking Water Matrix: Water)			Client	sample ID	WELL 4	 	 
Result   R				Client sampling	date / time	09-Jul-2025 14:30	 	 
Total Metals   Seryllium, total   7440-41-7   E432/WT   1.0   µg/L   <1.0	nalyte	CAS Number	Method/Lab	LOR	Unit	WT2518238-001	 	 
Beryllium, total						Result	 	 
Bismuth, total 7440-69-9 E432WT 1.0 µg/L <1.0	Total Metals							
Boron, total   7440-42-8   E432WT   50   µg/L   <50	Seryllium, total	7440-41-7	E432/WT	1.0	μg/L	<1.0	 	 
Cadmium, total         7440-43-9         E432WT         0.10         μg/L         0.14                                                                                                 <	sismuth, total	7440-69-9	E432/WT	1.0	μg/L	<1.0	 	 
Calcium, total       7440-70-2       E432/WT       0.50       mg/L       84.4	Boron, total	7440-42-8	E432/WT	50	μg/L	<50	 	 
Cesium, total         7440-46-2         E432/WT         0.10         μg/L         <0.10	admium, total	7440-43-9	E432/WT	0.10	μg/L	0.14	 	 
Chromium, total 7440-47-3 E432WT 1.0 µg/L <1.0	Calcium, total	7440-70-2	E432/WT	0.50	mg/L	84.4	 	 
Cobalt, total 7440-48-4 E432/WT 0.50 µg/L <0.50	esium, total	7440-46-2	E432/WT	0.10	μg/L	<0.10	 	 
Copper, total 7440-50-8 E432/WT 1.0 µg/L 4.2	Chromium, total	7440-47-3	E432/WT	1.0	μg/L	<1.0	 	 
Iron, total	obalt, total	7440-48-4	E432/WT	0.50	μg/L	<0.50	 	 
Lead, total       7439-92-1       E432/WT       1.0       μg/L       <1.0 <td< th=""><td>copper, total</td><td>7440-50-8</td><td>E432/WT</td><td>1.0</td><td>μg/L</td><td>4.2</td><td> </td><td> </td></td<>	copper, total	7440-50-8	E432/WT	1.0	μg/L	4.2	 	 
Lithium, total       7439-93-2       E432/WT       100       μg/L       <100	on, total	7439-89-6	E432/WT	50	μg/L	74	 	 
Magnesium, total       7439-95-4       E432/WT       0.50       mg/L       33.6	ead, total	7439-92-1	E432/WT	1.0	μg/L	<1.0	 	 
Manganese, total       7439-96-5       E432/WT       1.0       μg/L       4.7             Molybdenum, total       7439-98-7       E432/WT       1.0       μg/L       <1.0             Nickel, total       7440-02-0       E432/WT       2.0       μg/L       <2.0             Phosphorus, total       7723-14-0       E432/WT       0.050       mg/L       <0.050	ithium, total	7439-93-2	E432/WT	100	μg/L	<100	 	 
Molybdenum, total       7439-98-7       E432/WT       1.0       μg/L       <1.0	lagnesium, total	7439-95-4	E432/WT	0.50	mg/L	33.6	 	 
Nickel, total 7440-02-0 E432/WT 2.0 μg/L <2.0 Phosphorus, total 7723-14-0 E432/WT 0.050 mg/L <0.050	langanese, total	7439-96-5	E432/WT	1.0	μg/L	4.7	 	 
Phosphorus, total 7723-14-0 E432/WT 0.050 mg/L <0.050	lolybdenum, total	7439-98-7	E432/WT	1.0	μg/L	<1.0	 	 
	lickel, total	7440-02-0	E432/WT	2.0	μg/L	<2.0	 	 
Potassium, total         7440-09-7         E432/WT         1.0         mg/L         1.6	hosphorus, total	7723-14-0	E432/WT	0.050	mg/L	<0.050	 	 
	otassium, total	7440-09-7	E432/WT	1.0	mg/L	1.6	 	 
Rubidium, total 7440-17-7 Ε432/WT 2 μg/L <2	Rubidium, total	7440-17-7	E432/WT	2	μg/L	<2	 	 
Selenium, total 7782-49-2 E432/WT 1.0 μg/L <1.0	elenium, total	7782-49-2	E432/WT	1.0	μg/L	<1.0	 	 
Silicon, total 7440-21-3 E432/WT 1000 μg/L 5800	ilicon, total	7440-21-3	E432/WT	1000	μg/L	5800	 	 

alsglobal.com Page: 4 of 5

Work Order : WT2518238
Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



# Analytical Results

Sub-Matrix: Drinking Water (Matrix: Water)			Client	sample ID	WELL 4				
			date / time	09-Jul-2025 14:30					
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2518238-001				
					Result				
Total Metals									
Silver, total	7440-22-4	E432/WT	0.10	μg/L	<0.10				
Sodium, total	7440-23-5	E432/WT	0.50	mg/L	18.0				
Strontium, total	7440-24-6	E432/WT	1.0	μg/L	107				
Sulfur, total	7704-34-9	E432/WT	500	μg/L	8110				
Tellurium, total	13494-80-9	E432/WT	1.0	μg/L	<1.0				
Thallium, total	7440-28-0	E432/WT	0.30	μg/L	<0.30				
Thorium, total	7440-29-1	E432/WT	1.0	μg/L	<1.0				
Tin, total	7440-31-5	E432/WT	1.0	μg/L	3.0				
Titanium, total	7440-32-6	E432/WT	2.0	μg/L	<2.0				
Tungsten, total	7440-33-7	E432/WT	10	μg/L	<10				
Uranium, total	7440-61-1	E432/WT	2.0	μg/L	<2.0				
Vanadium, total	7440-62-2	E432/WT	1.0	μg/L	<1.0				
Zinc, total	7440-66-6	E432/WT	3.0	μg/L	153				
Zirconium, total	7440-67-7	E432/WT	4.0	μg/L	<4.0				

Please refer to the General Comments section for an explanation of any qualifiers detected.

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### **CERTIFICATE OF ANALYSIS**

Work Order : WT2518521

Client : **Groundwater Science Corp.** Laboratory : ALS Environmental - Waterloo

Contact : Andrew Pentney : Costas Farassoglou
Address : 465 Kingscourt Drive Unit 2 : Address : 60 Northland Road. Un

ldress : 465 Kingscourt Drive Unit 2 Address : 60 Northland Road, Unit 1
Waterloo Ontario Canada N2K 3R5 : 60 Northland Road, Unit 1
Waterloo ON Canada N2V 2B8

Telephone : 519 746 6916 E-mail : costas.farassoglou@alsglobal.com

 Project
 : AUDREY MEADOWS
 Telephone
 : 613 225 8279

 PO
 : --- Date Samples Received
 : 11-Jul-2025 13:30

 C-O-C number
 : --- Date Analysis Commenced
 : 11-Jul-2025

Sampler : Dave Nahrgang | Issue Date | : 18-Jul-2025 14:14

Sampler Dave Natiligang Issue Date : 18-Jul-2025 14:

Quote number : SOA 2025 - WT21-GWSC100-001 No. of samples received : 1

No. of samples analysed : 1

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

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
Jeminikumari Patel		Microbiology, Waterloo, Ontario
Melissa Freeman		Metals, Waterloo, Ontario
Walt Kippenhuck		Metals, Waterloo, Ontario
Walt Kippenhuck		Inorganics, Waterloo, Ontario

Page: 1 of 5 alsglobal.com

Work Order : WT2518521

Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



#### **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).

Unit	Description
CU	colour units (1 cu = 1 mg/l pt)
mg CaCO□/L	milligrams of CaCO□ per litre
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
μg/L	micrograms per litre

<sup>&</sup>lt;: less than.

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.

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.

<sup>&</sup>gt;: greater than.

Work Order : WT2518521
Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



# Analytical Results

Sub-Matrix: Water (Matrix: Water)					WELL 18 				
	Client sampling date / time 1								
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2518521-001				
					Result				
Physical Tests									
Alkalinity, total (as CaCO3)		E290/WT	1.0	mg/L	308				
Colour, true		E329-L/WT	2.0	CU	<2.0				
Hardness (as CaCO3), from total Ca/Mg		EC100A/WT	0.50	mg CaCO□/L	349				
рН		E108/WT	0.10	pH units	8.29				
Solids, total dissolved [TDS]		E162/WT	10	mg/L	360 DLDS				
Turbidity		E121/WT	0.10	NTU	1.41				
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	<0.0050				
Chloride	16887-00-6	E235.CI/WT	0.50	mg/L	30.2				
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	0.077				
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	0.883				
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.010				
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	25.0				
Microbiological Tests									
Coliforms, Escherichia coli [E. coli]		E010/WT	1	MPN/100 mL	Not Detected				
Coliforms, total		E010/WT	1	MPN/100 mL	3				
Total Metals									
Aluminum, total	7429-90-5	E432/WT	10	μg/L	<10				
Antimony, total	7440-36-0	E432/WT	0.60	μg/L	<0.60				
Arsenic, total	7440-38-2	E432/WT	1.0	μg/L	<1.0				
Barium, total	7440-39-3	E432/WT	10	μg/L	77				

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Work Order : WT2518521
Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



# Analytical Results

$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	b-Matrix: Water atrix: Water)			Client	sample ID	WELL 18 	 	 
Total Metals				Client sampling	date / time	11-Jul-2025 13:00	 	 
Total Metals   Sery llium, total   T440-41-7   E432/WT   1.0   µg/L   <1.0	alyte	CAS Number	Method/Lab	LOR	Unit	WT2518521-001	 	 
Beryllium, total   7440-41-7   E432/WT   1.0   µg/L   <1.0						Result	 	 
Bismuth, total         7440-69-9         E432/WT         1.0         μg/L         <1.0	otal Metals							
Boron, total         7440-42-8         E432/WT         50         μg/L         <50	ryllium, total	7440-41-7	E432/WT	1.0	μg/L	<1.0	 	 
Cadmium, total         7440-43-9         E432WT         0.10         μg/L         <0.10	smuth, total	7440-69-9	E432/WT	1.0	μg/L	<1.0	 	 
Calcium, total         7440-70-2         E432/WT         0.50         mg/L         84.4	ron, total	7440-42-8	E432/WT	50	μg/L	<50	 	 
Cesium, total         7440-46-2         E432/WT         0.10         μg/L         <0.10	dmium, total	7440-43-9	E432/WT	0.10	μg/L	<0.10	 	 
Chromium, total 7440-47-3 E432/WT 1.0 µg/L <1.0	lcium, total	7440-70-2	E432/WT	0.50	mg/L	84.4	 	 
Cobalt, total 7440-48-4 E432/WT 0.50 µg/L <0.50	sium, total	7440-46-2	E432/WT	0.10	μg/L	<0.10	 	 
Copper, total 7440-50-8 E432/WT 1.0 \( \mu g/L \) 1.6 \( \mu - \mu \) \( \mu - \mu \) 1.7 \( \mu \) 1.0 \( \mu g/L \) 1.6 \( \mu - \mu \) \( \mu \) 1.0 \( \mu g/L \) 1.6 \( \mu - \mu \) \( \mu \) 1.0 \( \mu g/L \)	romium, total	7440-47-3	E432/WT	1.0	μg/L	<1.0	 	 
Iron, total       7439-89-6       E432/WT       50       µg/L       124	balt, total	7440-48-4	E432/WT	0.50	μg/L	<0.50	 	 
Lead, total 7439-92-1 E432/WT 1.0 µg/L <1.0	pper, total	7440-50-8	E432/WT	1.0	μg/L	1.6	 	 
Lithium, total 7439-93-2 E432/WT 100 µg/L <100	n, total	7439-89-6	E432/WT	50	μg/L	124	 	 
Magnesium, total       7439-95-4       E432/WT       0.50       mg/L       33.6            Manganese, total       7439-96-5       E432/WT       1.0       μg/L       5.2	ad, total	7439-92-1	E432/WT	1.0	μg/L	<1.0	 	 
Manganese, total 7439-96-5 E432/WT 1.0 μg/L 5.2	hium, total	7439-93-2	E432/WT	100	μg/L	<100	 	 
	gnesium, total	7439-95-4	E432/WT	0.50	mg/L	33.6	 	 
Molybdenum, total 7439-98-7 E432/WT 1.0 μg/L <1.0	nganese, total	7439-96-5	E432/WT	1.0	μg/L	5.2	 	 
	olybdenum, total	7439-98-7	E432/WT	1.0	μg/L	<1.0	 	 
Nickel, total 7440-02-0 E432/WT 2.0 μg/L <2.0	ckel, total	7440-02-0	E432/WT	2.0	μg/L	<2.0	 	 
Phosphorus, total         7723-14-0         E432/WT         0.050         mg/L         <0.050	osphorus, total	7723-14-0	E432/WT	0.050	mg/L	<0.050	 	 
Potassium, total         7440-09-7         E432/WT         1.0         mg/L         1.3	tassium, total	7440-09-7	E432/WT	1.0	mg/L	1.3	 	 
Rubidium, total 7440-17-7 E432/WT 2 µg/L <2	bidium, total	7440-17-7	E432/WT	2	μg/L	<2	 	 
Selenium, total 7782-49-2 E432/WT 1.0 μg/L <1.0	lenium, total	7782-49-2	E432/WT	1.0	μg/L	<1.0	 	 
Silicon, total 7440-21-3 E432/WT 1000 μg/L 6200	icon, total	7440-21-3	E432/WT	1000	μg/L	6200	 	 

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Work Order : WT2518521
Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



# Analytical Results

Sub-Matrix: Water (Matrix: Water)  Client sample ID					WELL 18 				
Client sampling date / time									
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2518521-001				
					Result				
Total Metals									
Silver, total	7440-22-4	E432/WT	0.10	μg/L	<0.10				
Sodium, total	7440-23-5	E432/WT	0.50	mg/L	16.6				
Strontium, total	7440-24-6	E432/WT	1.0	μg/L	106				
Sulfur, total	7704-34-9	E432/WT	500	μg/L	9010				
Tellurium, total	13494-80-9	E432/WT	1.0	μg/L	<1.0				
Thallium, total	7440-28-0	E432/WT	0.30	μg/L	<0.30				
Thorium, total	7440-29-1	E432/WT	1.0	μg/L	<1.0				
Tin, total	7440-31-5	E432/WT	1.0	μg/L	<1.0				
Titanium, total	7440-32-6	E432/WT	2.0	μg/L	<2.0				
Tungsten, total	7440-33-7	E432/WT	10	μg/L	<10				
Uranium, total	7440-61-1	E432/WT	2.0	μg/L	<2.0				
Vanadium, total	7440-62-2	E432/WT	1.0	μg/L	<1.0				
Zinc, total	7440-66-6	E432/WT	3.0	μg/L	109				
Zirconium, total	7440-67-7	E432/WT	4.0	μg/L	<4.0				

Please refer to the General Comments section for an explanation of any qualifiers detected.

alsglobal.com Page: 5 of 5



### **CERTIFICATE OF ANALYSIS**

Work Order : WT2518691

Client : Groundwater Science Corp. Lal
Contact : Andrew Pentney Ac

Address : 465 Kingscourt Drive Unit 2

Waterloo Ontario Canada N2K 3R5

Telephone : 519 746 6916

Project : AUDREY MEADOWS

PO : ---C-O-C number : ---Sampler : ----

Site : ----

Quote number : SOA 2025 - WT21-GWSC100-001

No. of samples received : 1
No. of samples analysed : 1

Laboratory : ALS Environmental - Waterloo

Account Manager : Costas Farassoglou

Address : 60 Northland Road, Unit 1

Waterloo ON Canada N2V 2B8
E-mail : costas.farassoglou@alsglobal.com

Telephone : 613 225 8279

Date Samples Received : 14-Jul-2025 12:50
Date Analysis Commenced : 14-Jul-2025

Issue Date : 18-Jul-2025 16:32

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

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

Melissa Freeman Metals, Waterloo, Ontario

Ruby Sujeepan Microbiology, Waterloo, Ontario
Walt Kippenhuck Metals, Waterloo, Ontario

Walt Kippenhuck Inorganics, Waterloo, Ontario

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Work Order : WT2518691

Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



#### **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.

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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).

Unit	Description
CU	colour units (1 cu = 1 mg/l pt)
mg CaCO□/L	milligrams of CaCO□ per litre
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units
μg/L	micrograms per litre

<sup>&</sup>lt;: less than.

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.

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.

<sup>&</sup>gt;: greater than.

Work Order : WT2518691
Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



# Analytical Results

Sub-Matrix: Water  Matrix: Water)  Client sample ID				WELL 12 					
	Client sampling date / time				14-Jul-2025 12:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2518691-001				
					Result				
Physical Tests									
Alkalinity, total (as CaCO3)		E290/WT	1.0	mg/L	302				
Colour, true		E329-L/WT	2.0	CU	<2.0				
Hardness (as CaCO3), from total Ca/Mg		EC100A/WT	0.50	mg CaCO□/L	365				
рН		E108/WT	0.10	pH units	7.94				
Solids, total dissolved [TDS]		E162/WT	10	mg/L	396 DLDS				
Turbidity		E121/WT	0.10	NTU	1.54				
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	<0.0050				
Chloride	16887-00-6	E235.CI/WT	0.50	mg/L	33.1				
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	0.065				
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	1.20				
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.010				
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	20.0				
Microbiological Tests									
Coliforms, Escherichia coli [E. coli]		E010/WT	1	MPN/100 mL	Not Detected				
Coliforms, total		E010/WT	1	MPN/100 mL	6				
Total Metals									
Aluminum, total	7429-90-5	E432/WT	10	μg/L	<10				
Antimony, total	7440-36-0	E432/WT	0.60	μg/L	<0.60				
Arsenic, total	7440-38-2	E432/WT	1.0	μg/L	<1.0				
Barium, total	7440-39-3	E432/WT	10	μg/L	64				

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Work Order : WT2518691
Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



# Analytical Results

Sub-Matrix: Water Matrix: Water)	Client sample ID				 	 
	Client sampling date / time				 	 
nalyte CAS Numb	er Method/Lab	LOR	Unit	WT2518691-001	 	 
				Result	 	 
Total Metals						
Seryllium, total 7440-41	7 E432/WT	1.0	μg/L	<1.0	 	 
sismuth, total 7440-69	9 E432/WT	1.0	μg/L	<1.0	 	 
Soron, total 7440-42	8 E432/WT	50	μg/L	<50	 	 
cadmium, total 7440-43	9 E432/WT	0.10	μg/L	0.11	 	 
calcium, total 7440-70	2 E432/WT	0.50	mg/L	89.3	 	 
Sesium, total 7440-46	2 E432/WT	0.10	μg/L	<0.10	 	 
Chromium, total 7440-47	3 E432/WT	1.0	μg/L	<1.0	 	 
Sobalt, total 7440-48	4 E432/WT	0.50	μg/L	<0.50	 	 
Copper, total 7440-50	8 E432/WT	1.0	μg/L	1.2	 	 
ron, total 7439-89	6 E432/WT	50	μg/L	179	 	 
ead, total 7439-92	1 E432/WT	1.0	μg/L	<1.0	 	 
ithium, total 7439-93	2 E432/WT	100	μg/L	<100	 	 
lagnesium, total 7439-95	4 E432/WT	0.50	mg/L	34.5	 	 
langanese, total 7439-96	5 E432/WT	1.0	μg/L	2.7	 	 
lolybdenum, total 7439-98	7 E432/WT	1.0	μg/L	<1.0	 	 
lickel, total 7440-02	0 E432/WT	2.0	μg/L	<2.0	 	 
Phosphorus, total 7723-14	0 E432/WT	0.050	mg/L	<0.050	 	 
Potassium, total 7440-09	7 E432/WT	1.0	mg/L	1.4	 	 
Rubidium, total 7440-17	7 E432/WT	2	μg/L	<2	 	 
selenium, total 7782-49	2 E432/WT	1.0	μg/L	<1.0	 	 
ilicon, total 7440-21	3 E432/WT	1000	μg/L	5700	 	 

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Work Order : WT2518691
Client : Groundwater Science Corp.
Project : AUDREY MEADOWS



# Analytical Results

Sub-Matrix: Water (Matrix: Water)	Client sample ID				WELL 12 	 	 
Client sampling date / time						 	 
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2518691-001	 	 
					Result	 	 
Total Metals							
Silver, total	7440-22-4	E432/WT	0.10	μg/L	<0.10	 	 
Sodium, total	7440-23-5	E432/WT	0.50	mg/L	19.1	 	 
Strontium, total	7440-24-6	E432/WT	1.0	μg/L	104	 	 
Sulfur, total	7704-34-9	E432/WT	500	μg/L	7980	 	 
Tellurium, total	13494-80-9	E432/WT	1.0	μg/L	<1.0	 	 
Thallium, total	7440-28-0	E432/WT	0.30	μg/L	<0.30	 	 
Thorium, total	7440-29-1	E432/WT	1.0	μg/L	<1.0	 	 
Tin, total	7440-31-5	E432/WT	1.0	μg/L	<1.0	 	 
Titanium, total	7440-32-6	E432/WT	2.0	μg/L	<2.0	 	 
Tungsten, total	7440-33-7	E432/WT	10	μg/L	<10	 	 
Uranium, total	7440-61-1	E432/WT	2.0	μg/L	<2.0	 	 
Vanadium, total	7440-62-2	E432/WT	1.0	μg/L	<1.0	 	 
Zinc, total	7440-66-6	E432/WT	3.0	μg/L	139	 	 
Zirconium, total	7440-67-7	E432/WT	4.0	μg/L	<4.0	 	 

Please refer to the General Comments section for an explanation of any qualifiers detected.

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