

8(16)

## Brenda Law

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**From:** Don Creed  
**Sent:** February-20-13 2:59 PM  
**To:** Brenda Law  
**Subject:** Winter Operations Plan  
**Attachments:** Operations plan.docx; Township of Puslinch Winter Event Response Table - Final.xlsx; Winter Patrol Log.xlsx

Brenda,

Here are the documents that form the Winter Operations Plan.



Don Creed CRS-S  
Public Works Superintendent  
Township of Puslinch  
519-763-1470  
[doncreed@puslinch.ca](mailto:doncreed@puslinch.ca)

Resolution No. 2

Puslinch Township Public Works Committee

February 15, 2013

Moved by Don Creed

Seconded by Susan Fielding

THAT: The Public Works Committee does hereby recommend to Township Council that the Winter Operations Plan for the Township of Puslinch prepared January, 2013 be adopted by Council.

CARRIED.

**TABLE OF CONTENTS**

- 1. Township of Puslinch Road Network**
- 2. Staffing and Winter Patrol**
- 3. Level of Service**
- 4. Application Rates and Winter Event Response**
- 5. Equipment**
- 6. Yard Facilities**
- 7. Snow Removal and Disposal**
- 8. Weather Monitoring**
- 9. Training**
- 10. Documentation**
- 11. Emergency Road Closures**
- 12. Declaration of an Emergency**

**APPENDICES**

**Appendix A- Winter Road Patrol Log**

**Appendix B- Winter Event Response Table**

Winter Operations Plan  
Township of Puslinch

**1. Township of Puslinch**

The Township of Puslinch is responsible for the maintenance and construction of 170km of road of which 120km are paved and 50km are gravel.

The Township has adopted as policy the Minimum Maintenance Standards for Municipal Highways, Ontario Regulation 239/02 under the Municipal Act, 2002. for winter operations, these regulations specify both patrol frequency and the clearance of ice and snow.

**2. Staffing and Winter Patrol**

Winter staffing consists of:

- Superintendent
- Foreman
- 3 full time operators
- 1 seasonal full time operator
- 1 weekend part time operator

The Township employs a one person winter road patrol to provide condition information during the winter season. These individuals are responsible to call out the winter maintenance operators to ensure that the roads are cleared in a timely fashion while remaining in compliance with the Provincial Maintenance Standards.

The individuals assigned to the patrol function are familiar with local conditions within their area and prepare a road condition log and weather conditions as well as actions taken during the shift. The patroller will travel all roads listed on the condition log, this will provide a good representation of road conditions throughout the Township.

Patrol shifts cover the 4:00am to 3:30pm weekday period and the 5:00am to 5:00pm weekend period.

All staff remain on call at all other times and have the ability to respond within 30 minutes of being called.

The start date of Winter Operations shall be November 15<sup>th</sup> and the end date of Winter Operations shall be April 30<sup>th</sup> annually.

### 3. Level of Service

The Township provides a level of service for clearing snow accumulation and for treating icy roadway in accordance with the Ontario Regulation 239/02.

#### SNOW ACCUMULATION

Class of Highway	Depth	Time
3	8cm	12 hours
4	8cm	16 hours
5	10cm	24 hours

#### ICY ROADWAYS

Class of Highway	Time
3	8 hours
4	12 hours
5	16 hours

Overall, the Township's goal is to strive to maintain bare pavement and treated snow packed gravel roads.

### 4. Application Rates and Winter Event Response

Staff currently apply solid material at the rate of 100kg to 550kg per 2 lane km, direct liquid application is at the rate of 80 litres to 160 litres per 2 lane km. Solid material is typically applied in three different mixes depending on type of road surface, type of precipitation and road temperatures. Straight salt, 35/65 salt sand mix and straight sand. Direct liquid being applied is a 23.3% salt brine solution. Operators are allowed latitude in adjusting the application rates depending on road and weather conditions.

The Township is divided into 5 snow plow routes, this allows for continuous coverage to all areas of the Township when responding to winter events.

How Township staff responds to the many different types of winter events is defined in the Winter Event Response Table.

Winter Operations Plan  
Township of Puslinch

**5. Equipment**

For winter maintenance, the Township's fleet consists of:

Equipment	Front Plow	Underbody Plow	Wing	Salt/Sander	DLA	Electronic Controllers	IRTs
Pickup #4							Yes
Pickup #5							Yes
Tandem #301	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tandem #302	Yes	No	Yes	Yes	No	Yes	No
Single #303	Yes	No	Yes	Yes	No	No	No
Single #304	Yes	No	Yes	Yes	No	Yes	No
Single #305	Yes	No	No	Yes	No	No	No
Backhoe #6							
Grader #501							
Grader #502							

Prior to the winter season, all winter equipment is installed and checked for readiness. Calibration is carried out on unit #301 and the anti-icing unit.

All winter equipment is equipped with Global Positioning Systems.

**6. Yard Facilities**

The Township does not store any salt/sand material within their facilities, but uses the material from the County's Aberfoyle Yard. The Township facility does have storage capacity for 22,000 litres of salt brine for the anti-icing program.

**7. Snow Removal and Disposal**

The Township does remove snow from roadways on as required basis. Snow removal usually would occur in the urban areas of the Township due to buildup along sidewalks causing sightline issues. This activity will normally be a joint effort between Township and County staff. Snow that is removed will be deposited on Township property located on Watson Road S.

## **8. Weather Monitoring**

To supplement the road patrol information, the Superintendent and Foreman receive weather reports specific to the Township from the Weather Network four times daily. The Superintendent also has access to the Ministry of Transportation's Road Weather Information Systems.

## **9. Training**

The Township currently provides some staff training for winter maintenance personnel; however, there is no formal on going annual winter training program in place. The Superintendent and Foreman attend the Wellington County Road Supervisors Association meetings to discuss such issues as new equipment, material trends and uses, regulatory changes and common issues related to winter management. The Superintendent and Foreman also attend the County's annual Severe Winter Weather Procedures meeting.

Prior to the winter season the Superintendent meets with staff to discuss work schedules, material mixes, application rates and to review the Winter Event Response Table.

## **10. Documentation**

Documentation retained by the Township consists of:

- Staff time sheets and daily journal
- Winter road patrol logs
- Snow plow route logs
- Anti-icing route logs
- Salt/sand purchase records
- Daily weather reports
- GPS records

**11. Emergency Road Closures**

The authority to close roads is vested with the Wellington County branch of the Ontario Provincial Police under the Highway Traffic Act, Section 134 (2). Township staff will assist with road closures by installing road closed signs as directed by the police at key locations throughout the municipality.

**12. Declaration of an Emergency**

A declaration of emergency can only be made by the Township's Mayor or their designate.



# WINTER PATROL LOG



WINTER PATROL: \_\_\_\_\_

OPERATOR: \_\_\_\_\_

TRUCK: \_\_\_\_\_

START: \_\_\_\_\_

DATE: \_\_\_\_\_

FINISH: \_\_\_\_\_

ROAD	MCLEAN RD	VICTORIA RD	WATSON RD	LESLIE RD	CONC 1	CONC 2	ELLIS RD	LAIRD RD	ROSZELL RD	CONC 4
BARE & DRY										
BARE & WET										
BARE & CENTRE										
SNOW COVERED										
SNOW COVERED SECT										
SNOW PACKED SECT										
ICY										
SLUSHY										
DRIFTED SECTIONS										

## WEATHER CONDITIONS

TEMP AIR/ROAD	SKY			WIND		RAIN	PRECIPITATION	VISIBILITY
	C	PO	O	DIR	C-L-M-S		FR RAIN /SNOW/L-M-H	G-F-P-N

MATERIAL	AUGER SETTING	APPLICATION RATE	TOTAL MATERIAL USED
SALT			
SALT/SAND			
SAND			

**COMMENTS:**

\_\_\_\_\_

\_\_\_\_\_

**Winter Event Response Table**

Township of Puslinch

APPENDIX B

CONDITION DESCRIPTION		PRE-EVENT RESPONSE <sup>1</sup>			START OF EVENT RESPONSE			DURING EVENT RESPONSE			POST EVENT RESPONSE			Comments
Pavement Temp. - Range & Trend Dewpoint - Range & Trend Relative to Pave. Temp.	Type Of Precipitation <sup>1</sup>	Maintenance Action	Material Application Rates		Maintenance Action	Material Application Rates		Maintenance Action	Material Application Rates		Maintenance Action	Material Application Rates		
			Solid material <sup>2</sup> (kg / 2 ln km)	Liquid (l / 2 ln km)		Solid material <sup>2</sup> (kg / 2 ln km)	Liquid (l / 2 ln km)		Solid material <sup>2</sup> (kg / 2 ln km)	Liquid (l / 2 ln km)		Solid material <sup>2</sup> (kg / 2 ln km)	Liquid (l / 2 ln km)	
PT Above 0°C - steady or rising Dew Point < PT - any	Any. Likely Rain, Freezing Rain or Wet Snow.	Monitor. Spot application of liquid in localized cold sections. - see comments	N/A	Light	Monitor, - see comments	N/A	N/A	Monitor Apply liquid in local cold sections as needed - see comments	N/A	Light	Monitor Reapply liquid in local cold sections as needed - see comments	N/A	Light	Local cold spots should be monitored for icy conditions and liquid applied only as needed. Residual chemical should be on road from previous treatments.
PT Above 0°C - falling - 0°C or below imminent Dew Point < PT - approaching PT	Frost	Apply liquid & monitor	N/A	Light	Monitor & apply liquid or solid material	Light	Light	Reapply liquid or solid material as needed	Light	Light	Reapply liquid or solid material as needed	Light	Light	Anti-ice routes prior to the start of the event
	Freezing Rain or Ice Pellets	Apply solid material and monitor	Light	N/A	Monitor & apply solid material	Light	N/A	Reapply solid material as needed	Light	N/A	Reapply solid material as needed	Light	N/A	
	Snow (usually wet)	Apply liquid or solid material and monitor	Light-Moderate	Light N/A (if very wet snow)	Plow and apply liquid or solid material	Light-Moderate	Moderate N/A (if very wet snow)	Plow & reapply liquid or solid material	Light-Moderate	Moderate N/A (if very wet snow)	Complete plowing & reapply liquid or solid material	Light	Light	During the final cleanup plowing, liquid or solid material should only be applied where snow was plowed.
PT 0°C to -7°C - remaining in range Dew Point < PT - any	Frost	Apply liquid & monitor	N/A	Light	Monitor Apply liquid or solid material as needed	Light	Light	Monitor Reapply liquid or solid material as needed	Light	Light	Monitor Reapply liquid in local cold sections as needed - see comments	N/A	Light	Anti-ice routes prior to the start of the event
	Freezing Rain or Ice Pellets	Apply solid material and monitor	Light-Moderate	N/A	Monitor & apply solid material	Light-Moderate	N/A	Reapply solid material as needed	Light-Moderate	N/A	Reapply solid material as needed	Light	N/A	
	Light to Heavy Snow	Apply liquid and solid material and monitor	Moderate	Moderate- see comments	Plow and apply solid material	Moderate	N/A	Plow & reapply solid material	Light-Moderate	N/A	Complete plowing & reapply liquid or solid material	Light	Light-Moderate	Anti-ice routes prior to the start of the event
PT -7°C to -12°C - remaining in range Dew Point - any	Frost	Apply liquid & monitor	N/A	Moderate- see comments	Monitor and apply liquid or solid material as needed	Moderate	Moderate- see comments	Reapply liquid or solid material as needed	Moderate	Moderate- see comments	Reapply liquid or solid material as needed	Moderate	Moderate- see comments	Liquids should only be applied in day light hours
	Light to Heavy Snow	Apply liquid and solid material and monitor	Moderate-Heavy	Moderate-Heavy see comments	Plow and apply solid material	Moderate-Heavy	N/A	Plow & reapply solid material as needed	Moderate-Heavy	N/A	Complete plowing and reapply solid material as needed	Moderate	Moderate	Liquids should only be applied in day light hours
PT Below -12°C - rising Dew Point - any	Frost	Monitor - see comments	Moderate (with caution)	N/A	Apply solid material & monitor	Light-Moderate (with caution)	N/A	Monitor and apply solid material as needed	Light-Moderate (with caution)	N/A	Monitor - see comments	Moderate	N/A	Abrasives do not remain on a bare & dry road for long. Abrasives should only be applied just in advance of conditions worsening. Timing is important. The switch to applying salt should occur just prior to the pavement temperature rising through -12°C.
	Light to Heavy Snow	Monitor - see comments	Moderate (with caution)	N/A	Plow and apply solid material - see comments	Moderate-Heavy (with caution)	N/A	Plow and apply solid material as needed - see comments	Moderate-Heavy (with caution)	N/A	Complete plowing & reapply solid material as needed	Moderate	N/A	
PT Below -18°C - steady or falling Dew Point - any	Frost	Monitor - see comments	Moderate (with caution)	N/A	Apply solid material & monitor	Light (with caution)	N/A	Monitor and reapply abrasive as needed	Light (with caution)	N/A	Monitor - see comments	N/A	N/A	Abrasives do not remain on a bare & dry road for long. Abrasives should only be applied just in advance of conditions worsening. Timing is important.
	Light to Heavy Snow	Monitor - see comments	Moderate (with caution)	N/A	Plow and apply solid material	Moderate-Heavy (with caution)	N/A	Plow and reapply abrasive as needed	Moderate-Heavy (with caution)	N/A	Complete plowing & reapply abrasive as needed	Moderate (with caution)	N/A	

**Notes:** <sup>1/</sup> The forecasted Type of Precipitation for the Pre-Event Response decision making.  
<sup>1/</sup> The actual Type of Precipitation during the event for the Start of, During & Post Event Response decision making.  
<sup>2/</sup> Any material application during the The Pre-event Response should be focused on ensuring there is sufficient residual salt on the road to prevent the ice/pavement bond from forming during the early stages of an event.

<sup>2</sup> Solid material is typically applied in three different mixes depending on type of road surface, type of precipitation and road temperatures. Straight salt, 35/65 salt sand mix, straight

**Winter Event Response Table**

Township of Puslinch

CONDITION DESCRIPTION		RESPONSE TO WINDY CONDITIONS AND DRIFTING SNOW		
Pavement Temp. - Range & Trend Dewpoint - Range & Trend Relative to Pave. Temp.	Type Of Precipitation <sup>1/</sup>	Maintenance Action	Material Application Rates	
			Sand (kg / 2 ln km)	Liquid (l / 2 ln km)
PT Above 0°C - steady or rising Dew Point < PT - any	Any. Likely Rain, Freezing Rain or Wet Snow.	Monitor. Plow as needed and apply solid material to plowed areas only.	Light (applied dry)	N/A
PT Above 0°C - falling - 0°C or below imminent Dew Point < PT - approaching PT	Frost	Plow & apply solid material	Light (applied dry)	N/A
	Freezing Rain or Ice Pellets	Plow & apply solid material appropriate for forecasted conditions		
	Snow (usually wet)	Plow & apply solid material appropriate for forecasted conditions		
PT 0°C to -7°C - remaining in range Dew Point < PT - any	Frost	Plow & apply solid material	Light (apply dry if PT close to 0°C)	
	Freezing Rain or Ice Pellets	Plow & apply solid material appropriate for forecasted conditions		
	Light to Heavy Snow	Plow & apply solid material appropriate for forecasted conditions		
PT -7°C to -12°C - remaining in range Dew Point - any	Frost	Plow & apply solid material	Light <sup>4/</sup>	
	Light to Heavy Snow	Plow & apply solid material appropriate for forecasted conditions		
PT Below -12°C - rising Dew Point - any	Frost	Plow & apply solid material as appropriate	Moderate	
	Light to Heavy Snow	Plow & apply solid material appropriate for forecasted conditions		
PT Below -18°C - steady or falling Dew Point - any	Frost	Plow & apply solid material	Moderate	
	Light to Heavy Snow	Plow & apply solid material appropriate for forecasted conditions		

- Notes:**
- <sup>1/</sup> The forecasted Type of Precipitation for the Pre-Event Response decision making.
  - <sup>2/</sup> The actual Type of Precipitation during the event for the Start of, During & Post Event Response decision making.
  - <sup>4/</sup> Caution should be used when applying salt in areas with drifting snow and low but rising pavement temperatures. The goal is to keep the road dry and allow the snow to blow over the road and not stick.

8(1c)

**Brenda Law**

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**From:** Don Creed  
**Sent:** February-25-13 1:03 PM  
**To:** Councilors  
**Cc:** Brenda Law  
**Subject:** Signs for Heritage Committee  
**Attachments:** Twp of Puslinch - Decorative Street Blade Layouts.pdf

Good afternoon all,

Please find attached some samples for the signage requested by the Heritage Committee.

Pricing:  
Options A1, A2, B1, B2- sign, post and taxes \$190.00 per sign

Options C1, C2- sign, post and taxes \$87.00

This will be on the agenda for the March 6<sup>th</sup> council meeting.

Have a good day.

Don

Don Creed CRS-S  
Public Works Superintendent  
Township of Puslinch  
519-763-1470  
[doncreed@puslinch.ca](mailto:doncreed@puslinch.ca)

Decorative Street Blade  
OPTION A1



Decorative Street Blade  
OPTION B1



OPTION A2



OPTION B2



Standard Street Blade  
OPTION C1



OPTION C2



THIS RENDERING IS INTENDED AS A SAMPLE ONLY. COLOR, TEXTURE, MEASUREMENTS, AND ACTUAL APPEARANCE MAY VARY SLIGHTLY FROM COMPLETED WORK AND IS CONSIDERED NORMAL AND USUAL.

Please check layout (artwork, spelling, dimensions) and return with signature. Production cannot begin until written approval is received. Additional charges will be applied for any changes that are needed after approval is received. Cedar Signs Inc. is not responsible for any errors in spelling, layout, or dimension that have been approved by the customer. The proof is for listed items only. Any changes or deletions by the customer not show or charged here in will be billed separately.

I HAVE READ AND AGREE TO ALL TERMS. INITIAL \_\_\_\_\_

**APPROVAL  
REQUIRED** ✓

I HAVE REVIEWED THE ABOVE SPECIFICATIONS AND HEREBY FULLY UNDERSTAND THE CONTENT OF THE WORK TO BE PERFORMED AND APPROVE THIS PROJECT TO BEGIN"

Customer Name: \_\_\_\_\_  
(Please Print)

Customer Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**2013 BUILDING REPORT**

	<u>VALUE OF CONSTRUCTION</u>		<u>PERMIT FEES COLLECTED</u>		<u>%</u>	<u>PERMITS</u>
	<u>2012</u>	<u>2013</u>	<u>2012</u>	<u>2013</u>	<u>CHANGE</u>	<u>ISSUED</u>
January	\$1,552,000.00	\$2,323,300.00	\$17,445.00	\$30,628.95	150%	12
February	\$1,338,000.00	\$398,000.00	\$14,410.00	\$2,000.00	30%	4
March		\$0.00		\$0.00		
April		\$0.00		\$0.00		
May		\$0.00		\$0.00		
June		\$0.00		\$0.00		
July		\$0.00		\$0.00		
August		\$0.00		\$0.00		
September		\$0.00		\$0.00		
October		\$0.00		\$0.00		
November		\$0.00		\$0.00		
December		\$0.00		\$0.00		
<b>TOTALS TO DATE</b>		<b>\$2,721,300.00</b>		<b>\$32,628.95</b>		<b>16</b>
<b>2012 COMPARISON</b>		<b>\$2,890,000.00</b>		<b>\$31,855.00</b>		<b>18</b>
<b>Total % CHANGE</b>		<b>94%</b>		<b>102%</b>		<b>89%</b>

**Brenda Law**

---

**From:** Robert Kelly  
**Sent:** February-15-13 9:25 AM  
**To:** Brenda Law  
**Subject:** FW: Bell Mobility - Town of Puslinch Proposal - W4310  
**Attachments:** W4310 - Proposal - Town of Puslinch.pdf

This may be of interest?

Robert Kelly, CBCO  
**Chief Building Official &  
By-Law Enforcement Officer**

Township of Puslinch  
Ph: 519)763-1226 ext 216  
[robertk@puslinch.ca](mailto:robertk@puslinch.ca)

---

**From:** Steve Gitao [<mailto:Steve.Gitao@fonturinternational.com>]  
**Sent:** February-15-13 9:21 AM  
**To:** Robert Kelly  
**Subject:** Bell Mobility - Town of Puslinch Proposal - W4310

Good Morning Robert,

We are working with Bell Mobility to locate property near the intersection of Brock Rd & Wellington Road 34 for the purpose of a telecommunications installation.

Bell is receiving high traffic usage along these transportation corridors and needs to fill in their network by siting a new tower. We would like to give the Township the opportunity to possibly host this tower, this is something we have done with other municipalities, including Guelph, Hamilton, Oshawa among others.

Kindly review the attached proposal and I will be in touch next week to discuss this further.

Regards,

---

**Steve Gitao**  
**Site Acquisition & Municipal Specialist**  
FONTUR International  
30 East Beaver Creek, Suite 104  
Richmond Hill, Ontario L4B 1J2



**FONTUR**

Cell: (416) 435-4015  
Fax: (866) 234-7873



February 15<sup>th</sup> 2013

**The Township of Puslinch**

7404 Wellington Road 34  
Guelph, ON N1H 6H9

**Re: Telecommunications Tower Proposal**  
**Attention: CBO: Robert Kelly**

---

Bell Mobility has identified your property at **7404 Wellington Road 34, Guelph, Ontario**, as a potential candidate for the installation and operation of a telecommunications site. The purpose of this site is to provide improved Bell Mobility wireless coverage in the surrounding area.

The proposed installation would consist of a 40-50 metre tower within a 15m x 15m compound to house ground equipment. The size of the installation may vary depending on location, power availability, landlord and municipal requirements. Included in this proposal are photos of typical equipment and antennas used.

**Bell Mobility is proposing the following key terms:**

- |    |                                |   |
|----|--------------------------------|---|
| 1. | <b>Rental Fee</b>              | <b>\$14,000/annum</b>                                     |
| 2. | <b>Initial Term</b>            | <b>5 years</b>  |
| 3. | <b>Renewal Terms</b>           | <b>3 x 5 years</b>  |
| 4. | <b>Hydro</b>                   | <b>sub-metered and paid in addition to the rental fee</b> |
| 5. | <b>Access</b>                  | <b>7/24 access to the roof and equipment</b>              |
| 6. | <b>Bell Mobility Insurance</b> | <b>\$2,000,000 in commercial general liability</b>        |

Kindly review this proposal and if you are interested we will have our team out to conduct a technical site visit to develop the proposed designs to move this proposal forward. Please do not hesitate to contact me with any questions or concerns you may have.

Sincerely,

**Steve Gitao**

Site Acquisition & Municipal Specialist



30 East Beaver Creek Road, Suite 104  
Richmond Hill, Ontario L4B 1J2  
Phone: (416) 435-4015  
Email: [steve.gitao@fonturinternational.com](mailto:steve.gitao@fonturinternational.com)



## TYPICAL TOWER PHOTOS



9a

# Harden Environmental Services Ltd.

# Invoice

R.R. 1 Moffat, Ontario Canada L0P 1J0  
Phone: 519.826.0099 Fax: 519.826.9099

Township of Puslinch  
Mrs. Brenda Law  
R R #3  
Guelph  
Ontario N1H 6H9

Date	Invoice #
31/01/2013	3217

P.O. No.	
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Attention:	David Taliano
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Project & Description
9817 - Puslinch Lake

Serviced	Qty	Description	Rate	Amount
14/01/2013	0.5	Preparation of Draft or Final Documents	130.00	65.00
		HST (5%) On Sales	5.00%	3.25
		HST (8%) on Sales	8.00%	5.20

RECEIVED  
FEB 19 2013  
Township of Puslinch

Please Make Payable to Harden Environmental Services Ltd.

**Due Upon Receipt**

<b>Subtotal</b>	<b>\$65.00</b>
<b>HST</b>	<b>\$8.45</b>
<b>Total</b>	<b>\$73.45</b>

GST/HST No. 137009957

**Harden Environmental Services Ltd.**

**Invoice**

**R.R. 1 Moffat, Ontario Canada L0P 1J0  
Phone: 519.826.0099 Fax: 519.826.9099**

Township of Puslinch  
Mrs. Brenda Law  
R R #3  
Guelph  
Ontario N1H 6H9

Date	Invoice #
31/01/2013	3216

Attention:	Mrs. Brenda Law
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P.O. No.	
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Project & Description
9816 - Puslinch Groundwater Monitor...

Serviced	Qty	Description	Rate	Amount
03/01/2013	0.5	Draft Report Preparation by Junior Staff	75.00	37.50
04/01/2013	1	Draft Report Preparation by Junior Staff	75.00	75.00
		HST (5%) On Sales	5.00%	5.63
		HST (8%) on Sales	8.00%	9.00

**RECEIVED**  
FEB 19 2013  
Township of Puslinch

Please Make Payable to Harden Environmental Services Ltd.

**Due Upon Receipt**

GST/HST No. 137009957

<b>Subtotal</b>	<b>\$112.50</b>
<b>HST</b>	<b>\$14.63</b>
<b>Total</b>	<b>\$127.13</b>

# Harden Environmental Services Ltd.

# Invoice

R.R. 1 Moffat, Ontario Canada L0P 1J0  
 Phone: 519.826.0099 Fax: 519.826.9099

Township of Puslinch  
 R R # 3  
 Guelph, Ontario N1H 6H9

Date	Invoice #
31/01/2013	3215

Attention:	Mrs. Brenda Law
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P.O. No.	
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Project & Description
1305- Mammoet

Serviced	Qty	Description	Rate	Amount
18/01/2013	2.5	Preparation of Draft or Final Documents	130.00	325.00
21/01/2013	2	Preparation of Draft or Final Documents	130.00	260.00
31/01/2013	1	Preparation of Draft or Final Documents	130.00	130.00
		HST (5%) On Sales	5.00%	35.75
		HST (8%) on Sales	8.00%	57.20

RECEIVED  
 FEB 19 2013  
 Township of Puslinch

Please Make Payable to Harden Environmental Services Ltd.

**Due Upon Receipt**

GST/HST No. 137009957

<b>Subtotal</b>	\$715.00
<b>HST</b>	\$92.95
<b>Total</b>	<b>\$807.95</b>

# Harden Environmental Services Ltd.

# Invoice

R.R. 1 Moffat, Ontario Canada L0P 1J0  
 Phone: 519.826.0099 Fax: 519.826.9099

Township of Puslinch  
 R R # 3  
 Guelph, Ontario N1H 6H9

Date	Invoice #
31/01/2013	3214

Attention:	Mrs. Brenda Law
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P.O. No.	
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Project & Description
1201 - Cox Puslinch Pit

Serviced	Qty	Description	Rate	Amount
25/01/2013	2.5	Preparation of Draft or Final Documents	130.00	325.00
		HST (5%) On Sales	5.00%	16.25
		HST (8%) on Sales	8.00%	26.00

RECEIVED  
 FEB 19 2013  
 Township of Puslinch

Please Make Payable to Harden Environmental Services Ltd.

**Due Upon Receipt**

GST/HST No. 137009957

<b>Subtotal</b>	<b>\$325.00</b>
<b>HST</b>	<b>\$42.25</b>
<b>Total</b>	<b>\$367.25</b>

96



Gamsby and Mannerow  
ENGINEERS

Gamsby and Mannerow Limited  
650 Woodlawn Road West, Block C, Unit 2  
Guelph, ON N1K 1B8  
519-824-8150  
info@gamsby.com

February 14, 2013  
Invoice No: 71506  
Project Manager: Steve Conway

RECEIVED

FEB 22 2013

Township of Puslinch

Brenda Law  
Township of Puslinch  
R.R.#3  
Guelph, ON N1H 6H9

Project 111006-2 Mini Lakes Phase 3 (Condominium)

For Engineering Services in connection with Mini Lakes - Phase 3 (Condominium). Includes mainly for review of revised Subdivision Agreement and Condominium Agreements, meeting with Owner to review agreements, liaison with Owner's and Developer's engineer and meeting with Township to review the proposed new documents.

**Professional Services for the Period to February 02, 2013**

**Professional Personnel**

	Hours	Rate	Amount	
Eng D3	1.50	130.00	195.00	
Eng B4	27.50	95.00	2,612.50	
Tech D4	2.00	125.00	250.00	
Totals	31.00		3,057.50	
<b>Total Labour</b>				<b>3,057.50</b>

**Unit Billing**

Photocopying			66.75	
<b>Total Units</b>		<b>1.0 times</b>	<b>66.75</b>	<b>66.75</b>

**Taxes**

HST	13.00 % of 3,124.25		406.15	
<b>Total Taxes R101926525</b>			<b>406.15</b>	<b>406.15</b>

**Total Project Invoice Amount \$3,530.40**



Gamsby and Mannerow  
ENGINEERS

**Gamsby and Mannerow Limited**  
650 Woodlawn Road West, Block C, Unit 2  
Guelph, ON N1K 1B8  
519-824-8150  
info@gamsby.com

February 14, 2013  
Invoice No: 71508  
Project Manager: Steve Conway

RECEIVED

FEB 22 2013

Township of Puslinch

Brenda Law  
Township of Puslinch  
R.R.#3  
Guelph, ON N1H 6H9

Project 113006-1 7468 McLean Road (Mammocot) Site Plan Review

For Engineering Services in connection with 7468 McLean Road (Mammocot) Site Plan Review Application #SPA-01/2013. Includes mainly for initial review of site plan and SWM report and preparation of review comments.

**Professional Services for the Period to February 02, 2013**

**Professional Personnel**

	Hours	Rate	Amount	
Eng B4	3.75	95.00	356.25	
Eng B1	3.50	80.00	280.00	
Tech D4	.25	125.00	31.25	
Totals	7.50		667.50	
<b>Total Labour</b>				<b>667.50</b>

**Unit Billing**

Photocopying			2.15	
<b>Total Units</b>		<b>1.0 times</b>	<b>2.15</b>	<b>2.15</b>

**Taxes**

HST	13.00 % of 669.65		87.05	
<b>Total Taxes R101926525</b>			<b>87.05</b>	<b>87.05</b>

**Total Project Invoice Amount \$756.70**

