

July 5, 2018

Ms. Brittany Robertson, P.Eng.
C.F. Crozier & Associates
40 Huron Street
Suite 301
Collingwood, ON
L9Y 4R3



Dear Ms. Robertson:

Re: Subsurface Characterization Program
Proposed Long Point Road Subdivision, Blue Mountains

It is proposed to develop a ± 22 -lot urban residential subdivision on a ± 2.2 ha parcel of land located within Part of Lots 20 and 21, Concession 1, Geographic Township of Collingwood, Town of Blue Mountains (Plan 529, Part Lot 85, RP16R2186, Parts 4, 5, 8 & 9). Figure 1 shows the layout of the site and surroundings.

It is understood that full municipal servicing will be available for the proposed subdivision.

As requested, a subsurface investigation was completed to identify the seasonal high watertable level, the soil profile and the bedrock surface level, and was conducted through the installation of three exploratory boreholes on June 7, 2018. An initial site reconnaissance was conducted May 18, 2018.

SITE SETTING AND GEOLOGICAL SETTING

The proposed subdivision is located on a ± 2.2 ha parcel of land located on the west side of Long Point Road, approximately 200m north of Highway 26. Frontage along Long Point Road is approximately 93m, and the depth of the site is approximately 237m. The site is currently mainly forested, and is undeveloped.

According to imagery provided by on-line Grey County Maps as well as topographical information provided by Ontario Base Mapping, the site exhibits a very shallow relief with an overall slope to the north. A northwards- flowing improved drainage course is mapped to be situated approximately in the middle of the site, as well as along the western edge of the site. Mapped wetlands are located to the west and the east of the site. Lands surrounding the site are undeveloped forest to the west, mainly forested rural residential lots to the north and south, and residential properties to the east along Long Point Road.

According to the Ontario Geological Survey Map P.919 "Quaternary Geology of the Collingwood-Nottawasaga Area", the upper soils in the vicinity of the site will consist of glaciolacustrine sand overlying sandy silt till and/or limestone bedrock.

The bedrock beneath the site consists of limestone of the Simcoe Group.

According to local historical water well records completed prior to the local supply of municipal water (i.e. late 1960's to early 1970's, copies attached), the overburden in the vicinity of the site is in the range of 3.7m to 8.5m deep. All historical well records in the vicinity of the site report obtaining groundwater from the limestone bedrock aquifer beneath the site. The overburden is locally of insufficient thickness to have provided a viable, secure source of groundwater for domestic use.

SUBSURFACE ASSESSMENT

Three boreholes were completed within accessible areas of the subject property on June 7, 2018. The boreholes were completed using a track-mounted power auger machine equipped with continuous flight hollow-stem augers and conventional soil sampling equipment. The boreholes were completed to the bedrock surface (4.6m at BH1 and BH3, 4.9m at BH2) and were instrumented as 5.1cm-diameter monitoring wells. Drilling conditions were observed through auger feedback on a continuous basis. Overburden formation samples were collected using conventional split-spoon technique and from auger cuttings, and were field-identified at regular depth intervals. Selected representative samples were retained for subsequent laboratory analysis.

Logs of the borehole installations are attached. Copies of the water well records for the monitoring well installations are also attached. The approximate locations of the boreholes are shown on attached Figure 1.

Two representative overburden formation samples were selected for laboratory analysis, these being from the surficial sands and the underlying sandy silt till. The following table provides a summary of the analyses:

Sample	Depth (m)	Grain-Size Distribution				Estimated Coefficient of Permeability (cm/sec)	Estimated T-time (minutes/cm)
		Clay%	Silt%	Sand%	Gravel%		
BH1 S1	0.3 - 0.8	0	12	88	0	2×10^{-3}	10
BH3 S2	1.5 - 2.0	13	37	34	16	7×10^{-6}	40

Note: The above coefficients of permeability and T-times are estimates based on field observation, grain-size analysis, experience with similar soils and guidelines published under the Ontario Building Code.

In summary, soil conditions are generally consistent with local Quaternary Geology mapping, with a thin fine sand with some silt deposit overlying a silt and sand with some gravel and clay glacial till. The bedrock surface was encountered at 4.6m to 4.9m below grade.

Copies of the grain-size curves are attached.

WATERTABLE

Monitoring wells were installed in the three boreholes for subsequent observation of the watertable surface. Water levels were observed in the monitoring wells on June 28, 2018.

The following tables summarize the water level observations, including the depth groundwater was first observed in the three boreholes during drilling.

Monitoring Well	Depth to First Groundwater in Open Borehole (m) June 7, 2018	Monitoring Well Observations June 28, 2018	
		Water Level (m below top of pipe)	Water Level (m below grade)
BH1	0.3	1.66	0.68
BH2	0.3	1.47	0.58
BH3	0.6	1.90	0.81

Consistent with the geological setting of the site, shallow groundwater conditions are present over the entire property. The observed early summer groundwater levels range between 0.58m and 0.81m below grade. Based on the setting and observations during the May 18, 2018 reconnaissance, it is anticipated that high spring water levels will be at or near current grade.

SUMMARY

1. The soil profile over the property consists of with a thin fine sand with some silt deposit overlying a silt and sand with some gravel and clay glacial till.
2. The bedrock surface is situated 4.6m to 4.9m below current grade.
3. Groundwater levels observed June 28, 2018 ranged between 0.58m and 0.81m below grade. Based on the setting and observations during an earlier spring reconnaissance, it is anticipated that high spring water levels will be at or near current grade.

Should you have any questions or require further detail, please do not hesitate to contact this office.

Yours sincerely,

IAN D. WILSON ASSOCIATES LIMITED



Geoffrey Rether, P.Geo.

Legend

- Parcels
- Large Scale Roads
- Provincial Highway
- County Road
- Township Road
- Seasonal Road

APPROXIMATE LOCATIONS
OF EXPLORATORY
BOREHOLES

LONG POINT ROAD
SUBDIVISION

FIGURE 1

SCALE: AS SHOWN



Notes

This map is a user generated static output from an Internet mapping site and is for reference only.
Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

0.08 Kilometers



Printed: May 22, 2018

THIS MAP IS NOT TO BE USED FOR NAVIGATION

BOREHOLE VISUAL LOGS - Long Point Road Subdivision

BH1 Date: June 7, 2018
 UTM Coordinates: NAD 83, Zone 17, 556204E, 4930427N
 Collar Elevation: ±180m above sea level (per OBM)
 Depth: 4.7m

Visual Log:

0m - 0.2m	black TOPSOIL
0.2m - 1.7m	grey to dark grey, soft, dry to wet (~0.3m) fine SAND with some silt
1.7m - 4.6m	grey, very compact, wet SILT and SAND till with some gravel and clay, sand seams near base
4.6m - 4.7m	carbonate bedrock

- 5.1cm-diameter PVC monitoring well installed to base of borehole. 1.5m of #10 slot PVC screen at base. Imported sand 2.4m to 4.7m. Bentonite set grade to 2.4m.
- Water Level 0.68m below grade June 28, 2018.
- Sample 1 - 0.3m to 0.8m
Clay - 0%
Silt - 12%
Sand - 88%
Gravel - 0%

BH2 Date: June 7, 2018
 UTM Coordinates: NAD 83, Zone 17, 556043E, 4930410N
 Collar Elevation: ±180m above sea level (per OBM)
 Depth: 4.9m

Visual Log:

0m - 0.3m	black TOPSOIL
0.3m - 1.5m	grey to dark grey, soft, wet (~0.3m) fine SAND with some silt
1.5m - 4.6m	grey, very compact, wet SILT and SAND till with some gravel and clay, sand seams near base
4.6m - 4.9m	carbonate bedrock

- 5.1cm-diameter PVC monitoring well installed to base of borehole. 1.5m of #10 slot PVC screen at base. Imported sand 2.4m to 4.9m. Bentonite set grade to 2.4m.
- Water Level 0.58m below grade June 28, 2018.

BOREHOLE VISUAL LOGS - Long Point Road Subdivision

BH3 Date: June 7, 2018
 UTM Coordinates: NAD 83, Zone 17, 556148E, 4930396N
 Collar Elevation: ±181m above sea level (per OBM)
 Depth: 4.9m

Visual Log:

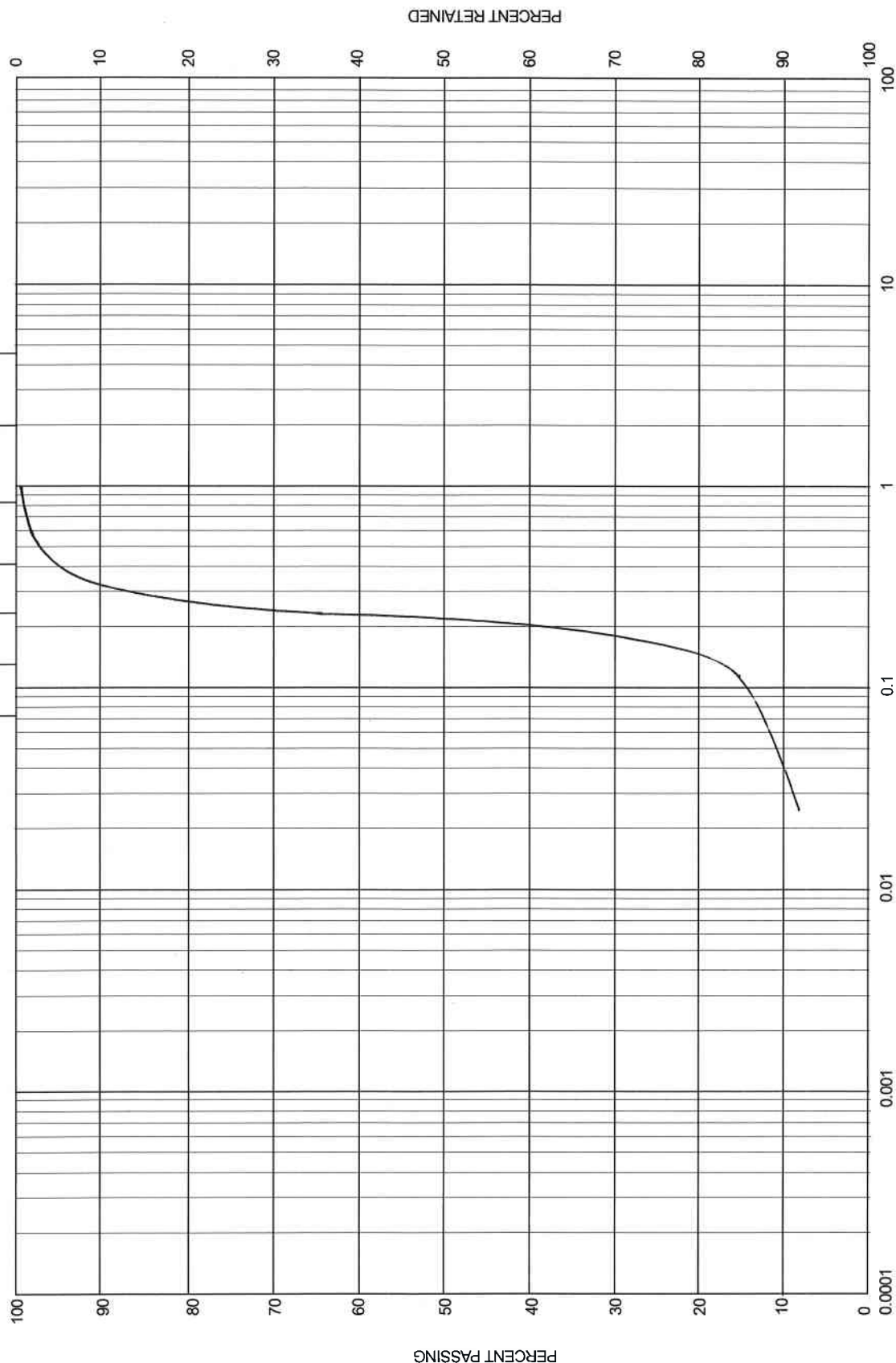
0m - 0.3m	black TOPSOIL
0.3m - 1.5m	grey to dark grey, soft, dry to wet (~0.6m) fine SAND with some silt
1.5m - 4.9m	grey, very compact, wet SILT and SAND till with some gravel and clay, sand seams near base
4.9m	rock refusal

- 5.1cm-diameter PVC monitoring well installed to base of borehole. 1.5m of #10 slot PVC screen at base. Imported sand 2.4m to 4.9m. Bentonite set grade to 2.4m.
- Water Level 0.81m below grade June 28, 2018.
- Sample 2 - 1.5m to 2.0m
Clay - 13%
Silt - 37%
Sand - 34%
Gravel - 16%

GRAIN SIZE DISTRIBUTION CHART

PROJECT / SAMPLE Long Point Road Subdivision - BH1, S1 - 0.3m to 0.8m

HYDROMETER ANALYSIS <---> SIEVE NUMBER (US STANDARD SIEVE SIZES)

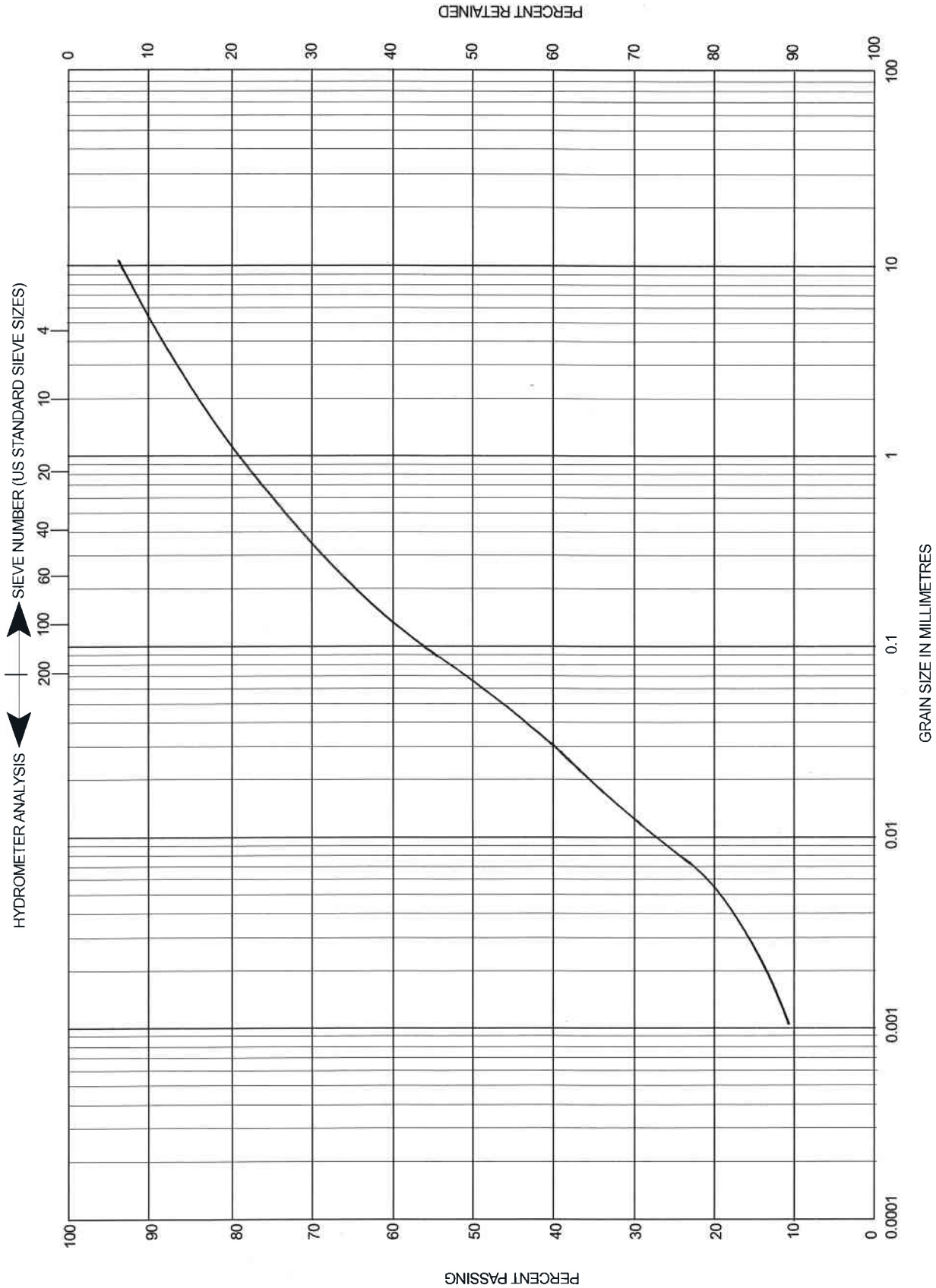


GRAIN SIZE IN MILLIMETRES		CLAY SIZE	SILT SIZE	SAND SIZE	GRAVEL SIZE	COBBLE SIZE

IAN D. WILSON ASSOCIATES LIMITED

GRAIN SIZE DISTRIBUTION CHART

PROJECT / SAMPLE Long Point Road Subdivision - BH3, S2 - 1.5m to 2.0m



CLAY SIZE	SILT SIZE	SAND SIZE	GRAVEL SIZE	COBBLE SIZE
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ON-SITE BOREHOLE
WELL RECORDS



Ontario

Ministry of the Environment
and Climate Change

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

A247422

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Measurements recorded in: ☐ Metric ☒ Imperial

Well Owner's Information

First Name: TONY Last Name / Organization: LESIAK E-mail Address: tlesiak@mcgill.ca
 Mailing Address (Street Number/Name): 7 PINEHURST CR Municipality: LEONARDVILLE Province: ON Postal Code: N7A 3H4 Telephone No. (inc. area code): 733 4419

Well Location

Address of Well Location (Street Number/Name): LONG POINT RD Township: GREY TWP OF City/Town/Village: TOWN OF BLUE MOUNTAINS Province: Ontario Postal Code: 00000
 County/District/Municipality: GREY COUNTY UTM Coordinates Zone: Easting: 175562104 Northing: 499301477 Municipal Plan and Sublot Number: P60-399 PL 16 S5AP Other: N0R2186 1/2 458'9"

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
BROWN	WET SAND			0 5
GREY	SILT TILL	GRAVEL	DENSE HARD	5 15
	LIME STONE			15 16

Annular Space			Results of Well Yield Testing				
Depth Set at (m/ft) From To		Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)	After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify	Draw Down Time (min) Water Level (m/ft)	Recovery Time (min) Water Level (m/ft)	
16	8	SILICA SAND		If pumping discontinued, give reason:	Static Level		
8	1	HYDRATED Bentonite			1		1
1	0	CONCRETE.			2		2
				Pump intake set at (m/ft)			

Method of Construction				Well Use			
☐ Cable Tool	☐ Diamond	☐ Public	☐ Commercial	☐ Not used			
☐ Rotary (Conventional)	☐ Jetting	☐ Domestic	☐ Municipal	☐ Dewatering			
☐ Rotary (Reverse)	☐ Driving	☐ Livestock	☐ Test Hole	☐ Monitoring			
☐ Boring	☐ Digging	☐ Irrigation	☐ Cooling & Air Conditioning				
☐ Air percussion		☐ Industrial					
☒ Other, specify: digger		☐ Other, specify					
Construction Record - Casing				Status of Well			
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	☐ Water Supply	☐ Replacement Well	☐ Test Hole	☐ Recharge Well
2"	PVC	3/16	11 13	☐ Dewatering Well	☐ Observation and/or Monitoring Hole	☐ Alteration (Construction)	☐ Abandoned, Insufficient Supply
4"	STEEL CASING	1/8	1 13	☒ Abandoned, Poor Water Quality	☐ Abandoned, other, specify		
				☐ Other, specify			
Construction Record - Screen				Map of Well Location			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	Please provide a map below following instructions on the back.			
2"	PVC	010	16 11				

Water Details				Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested	Depth (m/ft)	Diameter (cm/in)		
5 (m/ft)	☐ Gas ☐ Other, specify	0 16	8		
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested				
(m/ft)	☐ Gas ☐ Other, specify				
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested				
(m/ft)	☐ Gas ☐ Other, specify				

Well Contractor and Well Technician Information				Ministry Use Only	
LONDON SOIL TEST LTD.		Well Contractor's Licence No. 4190		Audit No. 285305	
712078 Southgate Sdrd. 71, RR #6		Municipality		Date Package Delivered	Y Y Y Y M M D D
Dundalk, ON N0C 1B0		Address		Date Work Completed	
519-455-5777 info@londonsoil.com				☐ Yes ☐ No	
Bus. telephone no. (inc. area code) / Name of well technician (Last Name, First Name)		Signature of Technician and/or Contractor		Received	
WATTS, Mike		Date Submitted			
Well Technician's Licence No. 1141		Signature of Well Owner			

20182110998





Ontario

Ministry of the Environment
and Climate Change

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

A247423

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Measurements recorded in: ☐ Metric ☒ Imperial

Well Owner's Information

First Name Tony	Last Name / Organization LESIAK	E-mail Address TLesiak@canadawaterresources.com	☐ Well Constructed by Well Owner
Mailing Address (Street Number/Name) 7 RENEHURST CR.	Municipality ETOBICOKE	Province ON	Postal Code M1A 1A3
Telephone No. (inc. area code) 416 733 4488			

Well Location

Address of Well Location (Street Number/Name) Long Point RD	Township Co. Bshp of Collingwood	Lot R 10:21	Concession 1
County/District/Municipality GREY COUNTY	City/Town/Village COLLINGWOOD	Province Ontario	Postal Code
UTM Coordinates Zone, Easting NAD 83 117515604949304110	Northings 605997510785RP	Other 160218613458:9	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
Brown	SAND		WET.	0 5
Grey	SILT CL.	GRAVEL	Dense.	5 15
Grey	LINE SILT BRICK		HARD.	15

Annular Space			Results of Well Yield Testing			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)	After test of well yield, water was:	Draw Down	Recovery	
From To			☐ Clear and sand free ☐ Other, specify	Time (min)	Water Level (m/ft)	Time (min)
15 8	SILICA SAND			Static Level	5	
8 1	HYDRATED Bentonite		If pumping discontinued, give reason:	1		1
1 0	CONCRETE		Pump intake set at (m/ft)	2		2
			Pumping rate (l/min / GPM)	3		3
			Duration of pumping hrs + min	4		4
			Final water level end of pumping (m/ft)	5		5
			If flowing give rate (l/min / GPM)	10		10
			Recommended pump depth (m/ft)	15		15
			Recommended pump rate (l/min / GPM)	20		20
			Well production (l/min / GPM)	25		25
			Disinfected? ☐ Yes ☒ No	30		30
				40		40
				50		50
				60		60

Method of Construction	Well Use
☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☒ Other, specify Auger	☐ Public ☐ Domestic ☐ Livestock ☐ Irrigation ☐ Industrial ☐ Other, specify ☐ Commercial ☐ Municipal ☐ Test Hole ☐ Cooling & Air Conditioning ☒ Not used ☐ Dewatering ☒ Monitoring

Construction Record - Casing	Status of Well																
<table border="1"> <tr> <th>Inside Diameter (cm/in)</th> <th>Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)</th> <th>Well Thickness (cm/in)</th> <th>Depth (m/ft)</th> </tr> <tr> <td>From To</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2" 11"</td> <td>PVC</td> <td>3/16</td> <td>10 13</td> </tr> <tr> <td></td> <td>STEEL SPOUT CASING</td> <td>1/8</td> <td>1 13</td> </tr> </table>	Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Well Thickness (cm/in)	Depth (m/ft)	From To				2" 11"	PVC	3/16	10 13		STEEL SPOUT CASING	1/8	1 13	☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☒ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ☐ Other, specify
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Well Thickness (cm/in)	Depth (m/ft)														
From To																	
2" 11"	PVC	3/16	10 13														
	STEEL SPOUT CASING	1/8	1 13														

Construction Record - Screen												
<table border="1"> <tr> <th>Outside Diameter (cm/in)</th> <th>Material (Plastic, Galvanized, Steel)</th> <th>Slot No.</th> <th>Depth (m/ft)</th> </tr> <tr> <td>From To</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2" 10"</td> <td>PVC</td> <td>1010</td> <td>15 10</td> </tr> </table>	Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	From To				2" 10"	PVC	1010	15 10
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)									
From To												
2" 10"	PVC	1010	15 10									

Water Details	Hole Diameter
Water found at Depth (m/ft) 5 Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	Depth (m/ft) 0 15 8 Diameter (cm/in)
Water found at Depth (m/ft) Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	
Water found at Depth (m/ft) Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	

Well Contractor and Well Technician Information
Business Name of Well Contractor LONDON SOIL TEST LTD. 712078 Southgate Sdrd. 71, RR #6 Dundalk, ON N0C 1B0 519-455-5777 info@londonsoil.com
Well Contractor's Licence No. 41190 Municipality Address

Well Contractor and Well Technician Information
Well Contractor's Licence No. 41190 Municipality Address
Well Technician's Licence No. 1041 Signature of Technician and/or Contractor WATTS MIKE Date Submitted 2014/11/11

Map of Well Location
Please provide a map below following instructions on the back.
Comments: see attached

Well Owner's Information	Date Package Delivered	Ministry Use Only
Well owner's information package delivered ☐ Yes ☒ No	Y Y Y Y M M D D 2014 11 11 Date Work Completed 2014 11 11	Audit No. 2285303 Recieved

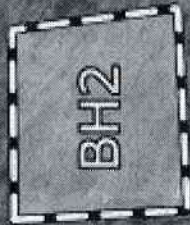
20182110998

Long Point Rd

Long Point Rd

Long Point Rd

Long Point Rd



A247493
Z285303



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

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☐ Metric ☒ Imperial

Page 1 of 1

A047 401

Well Owner's Information

First Name: TONY Last Name / Organization: LESIAK E-mail Address: Tlesiak@canadawater.com
 Mailing Address (Street Number/Name): 7 PINEHURST CR. Municipality: ETOBICOKE Province: ON Postal Code: M1A 3A4 Telephone No. (inc. area code): 416 233 4492

Well Location

Address of Well Location (Street Number/Name): Lone Point RD. Township: Geo. Twp. of Collingwood Lot: 17 Concession: 1
 County/District/Municipality: GREY COUNTY City/Town/Village: Town of Blue Mountains Province: Ontario Postal Code:
 UTM Coordinates: Zone: 17 Easting: 95611084930396 Northing: 6657916085817 Municipal Plan and Sublot Number: 16B218615 4/3 8/9

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
Brown	SAND		WT.	0 5
GRY	SILT CL	GRAVEL	HARD	5 16
	RED ROCK			16

Annular Space			Results of Well Yield Testing			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)	After test of well yield, water was:		Draw Down	
16 8	SILICA SAND		☐ Clear and sand free		Time (min)	Water Level (m/ft)
8 1	Hydroxide Bentonite		☐ Other, specify		Time (min)	Water Level (m/ft)
1 0	CONCRETE		If pumping discontinued, give reason:		Static Level	

Method of Construction		Well Use		Status of Well	
☐ Cable Tool	☐ Diamond	☐ Public	☐ Commercial	☐ Not used	
☐ Rotary (Conventional)	☐ Jetting	☐ Domestic	☐ Municipal	☐ Dewatering	
☐ Rotary (Reverse)	☐ Driving	☐ Livestock	☐ Test Hole	☒ Monitoring	
☐ Boring	☐ Digging	☐ Irrigation	☐ Cooling & Air Conditioning		
☐ Air percussion		☐ Industrial			
☒ Other, specify: digger		☐ Other, specify			

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	From	To
2"	PVC	3/16	11		+3
4"	Steel casing	1/8	1		+3

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	From	To
2"	PVC	.010	16		11

Construction Record - Casing		Construction Record - Screen	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)
2"	PVC	2"	PVC

Water Details		Hole Diameter	
Water found at Depth (m/ft): 5	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	Depth (m/ft): 0	Diameter (cm/in): 16 8
Water found at Depth (m/ft):	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify		
Water found at Depth (m/ft):	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify		

Well Contractor and Well Technician Information	
Well Contractor's Licence No.: 4190	Municipality:
Address:	

LONDON SOIL TEST LTD. 712078 Southgate Sdrd. 71, RR #6 Dundalk, ON N0C 1B0 519-455-5777 info@londonsoil.com	
Bus. telephone No. (inc. area code):	Name of well technician (Last Name, First Name):
Well Technician's Licence No.: 1671	Signature of Technician and/or Contractor: [Signature]
Date Submitted: 20180607	Date Package Delivered: Y Y Y Y M M D D
Well Owner's Copy	Ministry Use Only
	Audit No.: 285304
	Received: [Signature]

20182110998



Well Owner Information Package

Protect your health and our shared groundwater

Now that you have a well on your property, you are legally responsible for the proper maintenance and abandonment (plugging and sealing) of your well.

A poorly maintained or improperly abandoned well could result in contaminated well water and groundwater, and it could affect your health.

The following tips will help you protect your well:

- Test the quality of your well water on a regular basis and look for changes in the water's appearance (e.g. colour, taste, odour)
- Keep surface water and foreign materials (e.g. insects and mice) from entering the well by securing the well cap in place and checking your well regularly for signs of rust and wear, cracks, holes or gaps in the well's structure
- If materials get in your well, safely remove them
- Keep ponded water, vehicles, pet waste, salt and fertilizer away from the well
- Make sure the ground around your well slopes away from your well
- Ensure the well is accessible for future repairs and maintain the minimum above ground height (typically 40 cm above the surface)
- Check for and identify abnormal sounds. They could indicate wear on the well's pump, waterlines or electrical cables or other issues
- Check the pump's efficiency. If the pump is continually running or losing pressure, it may be a sign of a crack or hole in the waterlines
- Ensure your septic tank system works and is pumped out regularly to prevent contamination of your well water

For information on testing the quality of your well water, visit:

- publichealthontario.ca (search "water testing") to request a drinking water sample collection kit for free bacterial testing
- ontario.ca/page/list-licensed-laboratories to find a licensed laboratory

for chemical testing (note: laboratories charge a fee for this service)

Inspecting your well can be dangerous work. If you are not familiar with wells, let an experienced and licensed well technician do the work.

ontario.ca/ministry-environment

Before inspecting a well, make sure to:

- Shut off the power supply to the pump
- Assess the structure of the well and nearby ground to make sure they are stable before approaching the well
- Carefully remove the well cap and take all necessary precautions to make sure people and animals cannot fall into the well

If you no longer use your well or aren't maintaining it for future use as a well, it must be properly abandoned (plugged and sealed).

If you have a water quality or quantity problem or your well is in need of repair, upgrade or abandonment, see the licensed well contractor list on ontario.ca/findwellcontractors.

For more information on properly maintaining or abandoning your well:

- visit ontario.ca/propertywells
- call 1-888-396-9355 (WELL)
- email wellshelpdesk@ontario.ca

For more information on your legal obligations, the Wells Regulation (under the Ontario Water Resources Act) is available at ontario.ca/laws.

OFF-SITE HISTORICAL
WELL RECORDS

UTM 1172 556 108 E
29980
15R 49 80 80 N



41A/9/10

GROUND WATER SECTION
25 No. 890
RES. SECTION

Elev. 5102580

WATER WELL RECORD

Basin 221 Grey

County or District Con. T Lot 21

Township, Village, Town or City Collingwood

Date completed 18 Nov 1961

Address

Casing and Screen Record

Inside diameter of casing 4"
Total length of casing 15
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 4"

Pumping Test

Static level 8
Test-pumping rate 2 G.P.M.
Pumping level 10'
Duration of test pumping 1 HR.
Water clear or cloudy at end of test Clear
Recommended pumping rate 2 G.P.M.
with pump setting of 35 feet below ground surface

Well Log

Overburden and Bedrock Record

TIME SAND
LIMESTONE

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

0
17

17
38

35

FRESH

Water Record

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

COTTAGE

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

Drilling or Boring Firm

Address R.R. 2 Collingwood

Licence Number 577

Name of Driller or Borer

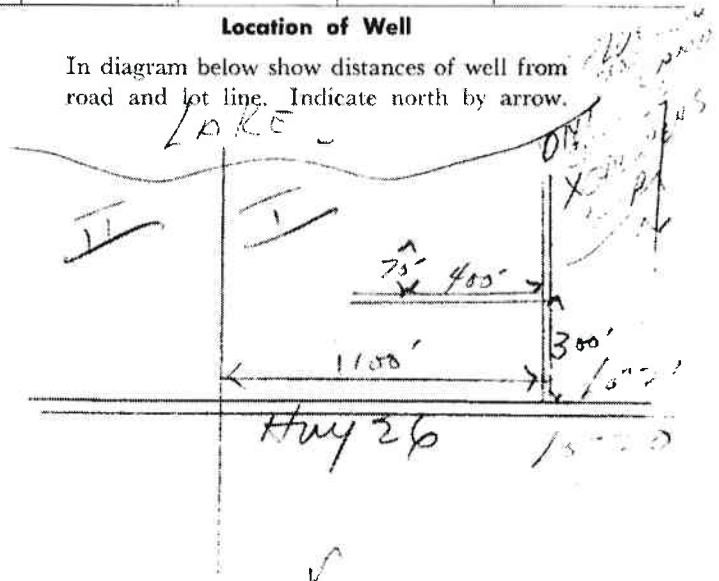
Address

Date 11/1/62

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



WM 1172556100
4R 49300000
ev. 15R 0590
asin 221



Water management in Ontario

The Ontario Water Resources Commission Act

250-2974

41A
9/10

WATER WELL RECORD

County or District GREY

Township, Village, Town or City COLLINGWOOD

Con. 1 Lot #22

Date completed 23 June 1969
(day) (month) (year)

Address TOWNHINE (COLLINGWOOD)

Casing and Screen Record

Inside diameter of casing 6"
Total length of casing 23'
Type of screen ✓
Length of screen ✓
Depth to top of screen ✓
Diameter of finished hole 6"

Pumping Test

Static level 4'
Test-pumping rate 10 G.P.M.
Pumping level 25'
Duration of test pumping 1 hr
Water clear or cloudy at end of test clear
Recommended pumping rate 10 G.P.M.
with pump setting of 25' feet below ground surface

Well Log

Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
(some large stones) stoney clay	0	14		
layers of grey shale	14	23		
grey limestone	23	28	28	fresh

Water Record

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

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

Drilling or Boring Firm Ferry & Ken Nightingale & Sons

Address stayner

Licence Number 3404

Name of Driller or Borer Ferry & Ken Nightingale & Sons

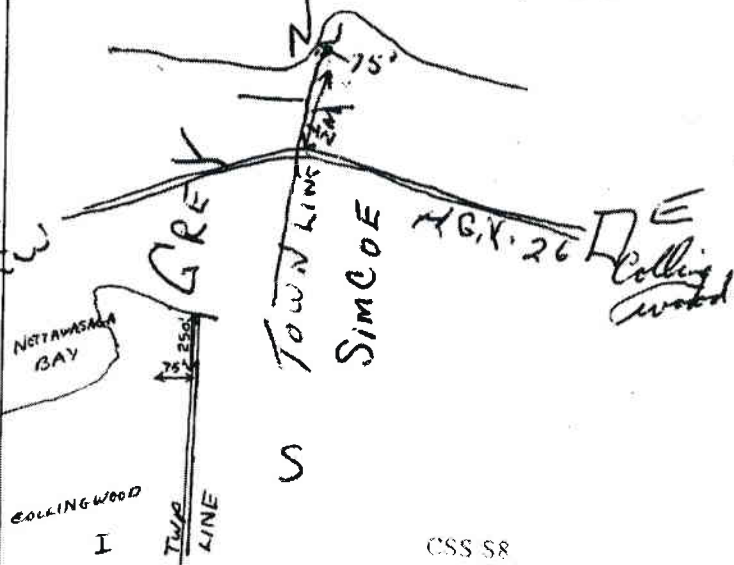
Address stayner

Date 5 July 69

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



Form 7

OWRC COPY Long Point

CSS 58



WATER WELL RECORD

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

2503251

MUNICIP.

25.003

CON.

C&N

91

COUNTY OR DISTRICT

GREY

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

COLLINGWOOD

CON., BLOCK, TRACT, SURVEY, ETC.

1

LOT

021

DATE COMPLETED

DAY 02

NO 1991

YR. 70

R.#3 COLLINGWOOD, D.T.

30.290 4 0596 5 22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BL.	TOPSOIL			0	1
BR.	SAND	CLAY & STONES		1	7
BL.	CLAY	SAND & STONES		7	17
DARK.	SHALE	CLAY	LAYERS.	17	23
	BEDROCK.		DARK LIMESTONE	23	33'6"

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER	
10-13	☒ FRESH	☐ SULPHUR
	☐ SALTY	☐ MINERAL
15-16	☐ FRESH	☐ SULPHUR
	☐ SALTY	☐ MINERAL
20-23	☐ FRESH	☐ SULPHUR
	☐ SALTY	☐ MINERAL
25-28	☐ FRESH	☐ SULPHUR
	☐ SALTY	☐ MINERAL
30-33	☐ FRESH	☐ SULPHUR
	☐ SALTY	☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-13	☒ STEEL		0
	☐ GALVANIZED		
	☐ CONCRETE		
	☐ OPEN HOLE		
17-18	☐ STEEL		
	☐ GALVANIZED		
	☐ CONCRETE		
	☐ OPEN HOLE		
24-25	☐ STEEL		
	☐ GALVANIZED		
	☐ CONCRETE		
	☐ OPEN HOLE		

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)	
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	

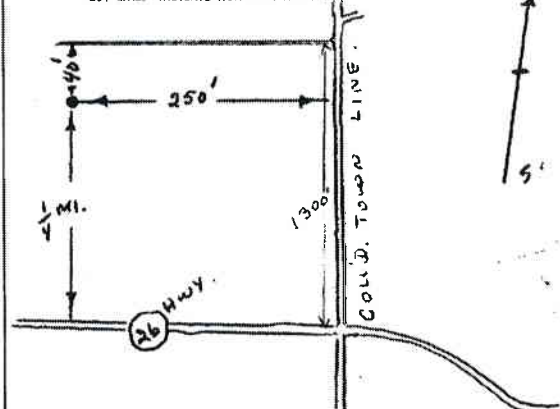
71

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
☒ PUMP	0003 GPM	01 HOURS
☐ BAILEY		
WATER LEVEL	WATER LEVELS DURING	1 PUMPING
STATIC LEVEL		2 RECOVERY
FEET	FEET	FEET
20-23	24-25	26-29
30-33	34-35	36-37
IF FLOWING, GIVE RATE	38-41 PUMP INTAKE SET AT	WATER AT END OF TEST
	GPM	FEET
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☒ SHALLOW	030	0002
☐ DEEP		
50-53	GPM/FT SPECIFIC CAPACITY	

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

LOCATION OF WELL

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



DRILLER'S REMARKS:

CONTRACTOR	NAME OF WELL CONTRACTOR	LICENCE NUMBER
	F. WRIGHT & SON	3605
	ADDRESS	
	140-6th ST. COLLINGWOOD	
	NAME OF DRILLER OR BORE	LICENCE NUMBER
	F. WRIGHT	3605
	SIGNATURE OF CONTRACTOR	SUBMISSION DATE
		DAY 17 MO JAN YR 70

OFFICE USE ONLY	DATA SOURCE	58 CONTRACTOR	59-62 DATE RECEIVED	63-66 NO
	1	5510	130870	
	DATE OF INSPECTION	INSPECTOR		
		P/L		
	REMARKS:			

OWRC COPY



MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act
WATER WELL RECORD

41 A/9W

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

COUNTY OR DISTRICT: **GREY** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **COLLINGWOOD** CON. BLOCK, TRACT, LOT: **Plan 527** LOT: **021**
DATE COMPLETED: **10/11/73**
DAY: **16** MO: **12** YR: **73**
RC: **CRAIKLEITH** ELEVATION: **600** BASIN CODE: **22**

2504485 17 556164 4930352 4 600 5 22 OCT 17, 1975 69

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	SAND clay			0	6
Brown	stony clay			6	12
Grey	shale			12	18
11"	Limestone		very hard	18	58



31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 ☒ FRESH 3 ☒ SULPHUR 4 ☒ MINERAL
13-18	1 ☒ FRESH 3 ☒ SULPHUR 4 ☒ MINERAL
20-23	1 ☒ FRESH 3 ☒ SULPHUR 4 ☒ MINERAL
23-28	1 ☒ FRESH 3 ☒ SULPHUR 4 ☒ MINERAL
30-33	1 ☒ FRESH 3 ☒ SULPHUR 4 ☒ MINERAL

51 CASING & OPEN HOLE RECORD

DEPTH - FEET	MATERIAL	WALL THICKNESS INCHES
10-13	2 ☒ GALVANIZED 3 ☒ CONCRETE 4 ☒ OPEN HOLE	
13-18	2 ☒ GALVANIZED 3 ☒ CONCRETE 4 ☒ OPEN HOLE	
20-23	2 ☒ GALVANIZED 3 ☒ CONCRETE 4 ☒ OPEN HOLE	
23-28	2 ☒ GALVANIZED 3 ☒ CONCRETE 4 ☒ OPEN HOLE	
30-33	2 ☒ GALVANIZED 3 ☒ CONCRETE 4 ☒ OPEN HOLE	

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
30-33	34-38	39-48

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT, LEAD PACKER, ETC.
FROM TO		
10-13	34-38	39-48
13-18	34-38	39-48
20-23	34-38	39-48
23-28	34-38	39-48
30-33	34-38	39-48

71 PUMPING TEST

PUMPING TEST METHOD	PUMP NO RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☒ RAISER <td>15-16 GPM</td> <td>17-18 HOURS</td>	15-16 GPM	17-18 HOURS
1 ☒ PUMP 2 ☒ RAISER <td>15-16 GPM</td> <td>17-18 HOURS</td>	15-16 GPM	17-18 HOURS
1 ☒ PUMP 2 ☒ RAISER <td>15-16 GPM</td> <td>17-18 HOURS</td>	15-16 GPM	17-18 HOURS
1 ☒ PUMP 2 ☒ RAISER <td>15-16 GPM</td> <td>17-18 HOURS</td>	15-16 GPM	17-18 HOURS
1 ☒ PUMP 2 ☒ RAISER <td>15-16 GPM</td> <td>17-18 HOURS</td>	15-16 GPM	17-18 HOURS

FINAL STATUS OF WELL

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

WATER USE

1 ☒ DOMESTIC	5 ☒ COMMERCIAL
2 ☒ STOCK	6 ☒ MUNICIPAL
3 ☒ IRRIGATION	7 ☒ PUBLIC SUPPLY
4 ☒ INDUSTRIAL	8 ☒ COOLING OR AIR CONDITIONING
9 ☒ OTHER	10 ☒ NOT USED

METHOD OF DRILLING

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

LOCATION OF WELL

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

CONTRACTOR

NAME OF WELL CONTRACTOR: KEN MIGHTON & SONS	LICENCE NUMBER: 3602
ADDRESS: STARNER	
NAME OF DRILLER OR BORE: LARRY & KEN MIGHTON	LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: <i>Kenneth A. Mighton</i>	SUBMISSION DATE: DAY: MO: YR:

OFFICE USE ONLY

DATA SOURCE: 1	CONTRACTOR: 3602	DATE RECEIVED: 160174
DATE OF INSPECTION: 26.9.74	INSPECTOR: 710	
REMARKS:		

CSS.S8



Ontario

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act
WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

2504867

MUNICIPALITY

250003

CON.

CON

01

COUNTY OR DISTRICT

CROWN

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

COLLINGWOOD

CON. BLOCK, TRACT, SURVEY, ETC.

1

LOT

021

DATE COMPLETED

DAY 24

MO. 10

YR. 74

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	TOP SOIL		SHALLOW	0	1
BROWN	SAND	GRAVEL		1	6
GREY	CLAY	GRAVEL STONES		6	28
GREY	SHALE			28	63

31 000160228 000662811 00282051112 0063217

41 WATER RECORD WATER FOUND AT - FEET 10-15 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL 15-20 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL 20-25 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL 25-30 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL 30-35 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL	51 CASING & OPEN HOLE RECORD INSIDE DIAM. INCHES 10-15 1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 15-20 1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 20-25 1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 25-30 1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	61 PLUGGING & SEALING RECORD DEPTH SET AT - FEET FROM TO 10-15 14-17 18-21 21-25 28-31 31-35
---	--	--

71 PUMPING TEST PUMPING TEST METHOD 1 ☐ PUMP 2 ☐ BAILEY WATER LEVEL END OF PUMPING 15-21 22-24 FEET FEET PUMP INITIAL SET AT 28-31 31-35 FEET FEET WATER AT END OF TEST 38-41 41-45 FEET FEET RECOMMENDED PUMP TYPE 1 ☐ SHALLOW 2 ☐ DEEP RECOMMENDED PUMP SETTING 38-41 41-45 FEET FEET GPM / FT. SPECIFIC CAPACITY	81 LOCATION OF WELL IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. N 100' 1 MILE TOWN LINE CROWN TWP OSSEY 76 NORTH DRILLER'S REMARKS
---	---

FINAL STATUS OF WELL 1 ☐ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☒ ABANDONED - INSUFFICIENT SUPPLY 6 ☐ ABANDONED - POOR QUALITY 7 ☐ UNFINISHED	WATER USE 1 ☐ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL 5 ☐ OTHER 6 ☐ COMMERCIAL 7 ☐ MUNICIPAL 8 ☐ PUBLIC SUPPLY 9 ☐ COOLING OR AIR CONDITIONING 10 ☐ NOT USED	METHOD OF DRILLING 1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING
--	--	--

CONTRACTOR NAME OF WELL CONTRACTOR DAWSON M SEWELL ADDRESS RR1 DUNTHURTON NAME OF DRILLER OR BORE SAME SIGNATURE OF CONTRACTOR Dawson M Sewell LICENCE NUMBER 4716 SUBMISSION DATE DAY 07 NO. 11 YR. 74	OFFICE USE ONLY DATE OF INSPECTION June 24/75 INSPECTOR J.B. P.L. W.I.
--	---



Ministry
of the
Environment
Ontario

#17

WATER WELL RECORD

The Ontario Water Resources Act

41A/10W

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2507761

MUNICIPAL

25003

CON

01

COUNTY OR DISTRICT

Green

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

Collingwood

CON. BLOCK, TRACT, SURVEY, ETC.

1

(PART 20)

DATE COMPLETED
DAY 04 MO 08 YR 82

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM TO
BLACK	TOP SOIL			0 2
GREY	CLAY	STONES		2 13
GREY	CLAY	FINE SAND		13 22
BROWN	MEDIUM SAND	CLAY		22 23 1/2
BROWN	LIMESTONE		HARD	23 1/2 30

31 0002802 001320512 002220508 002460905 003060578

41 WATER RECORD

WATER FOUND AT - FEET: 0024 33 1/2

KIND OF WATER

1 FRESH	3 SULPHUR
2 SALTY	4 MINERAL

15-18 1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL

20-23 1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL

25-28 1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL

30-33 1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL

51 CASING & OPEN HOLE RECORD

DEPTH - FEET	WALL THICKNESS (INCHES)
0-188	1 1/2 STEEL
188-238	2 GALVANIZED
238-238 1/2	3 CONCRETE
238 1/2-30	4 OPEN HOLE

SCREEN

SIZE(S) OF OPENING (SLOT NO.)

DIAMETER 34-38

LENGTH 39-40

MATERIAL AND TYPE

DEPTH TO TOP OF SCREEN

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	FROM TO	MATERIAL AND TYPE	CEMENT GRADE (LEAD PAPER, ETC.)
10-13	10-13		
18-21	18-21		
26-28	26-28		

71 PUMPING TEST METHOD

1 PUMP 2 DAILER

PUMPING RATE 001 GPM

DURATION OF PUMPING 02 HOURS 00 MIN

STATIC WATER LEVEL 028 FEET

WATER LEVELS DURING PUMPING

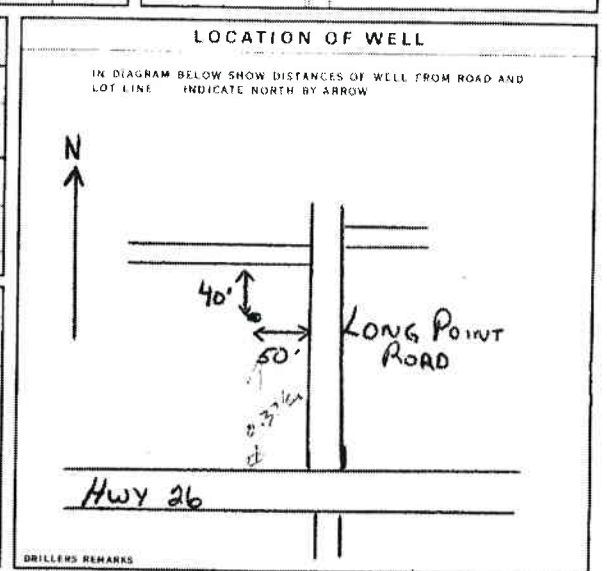
TIME	WATER LEVEL (FEET)
15 MINUTES	024
30 MINUTES	
45 MINUTES	
1 HOUR	

IN FLOWING GIVE RATE 029 GPM

RECOMMENDED PUMP TYPE 1 SHALLOW 2 DEEP

RECOMMENDED PUMP SETTING 029 FEET

RECOMMENDED PUMP RATE 001 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY

2 OBSERVATION WELL 6 ABANDONED, POOR QUALITY

3 TEST HOLE 7 UNFINISHED

4 RECHARGE WELL

WATER USE 01

1 DOMESTIC 5 COMMERCIAL

2 STOCK 6 MUNICIPAL

3 IRRIGATION 7 PUBLIC SUPPLY

4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING

9 OTHER 9 NOT USED

METHOD OF DRILLING 1

1 CABLE TOOL 5 BORING

2 ROTARY (CONVENTIONAL) 6 DIAMOND

3 ROTARY (REVERSE) 7 JETTING

4 ROTARY (AIR) 8 DRIVING

5 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: DUNSTON M SEWELL

LICENCE NUMBER: 4716

ADDRESS: 1111 DUNSTON

NAME OF DRILLER OR BOREH: Charles Down

SIGNATURE OF CONTRACTOR: [Signature]

SUBMISSION DATE: DAY 01 MO 10 YR 82

OFFICE USE ONLY

DATA SOURCE: 1

CONTRACTOR: 4716

DATE OF INSPECTION: 01 10 82

INSPECTOR: [Signature]

REMARKS: WP CSS.S8 J/P