



GeoPro Consulting Limited

Geotechnical-Hydrogeology-Environmental-Materials-Inspection

Phase One Environmental Site Assessment

Proposed Residential Development

East side of County Road 27 and north of Salem Road, City of Barrie, ON

Prepared For:

Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI



GeoPro Project No.: 17-2099E

Report Date: December 18, 2018 Revised

Professional, Proficient, Proactive

GeoPro Consulting Limited Tel. (905) 237-8336
Unit 57, 40 Vogell Road, Richmond Hill, Ontario L4B 3N6



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1.0 EXECUTIVE SUMMARY

GeoPro Consulting Limited (“GeoPro”) was retained by Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI (the “Client”) to conduct a Phase One Environmental Site Assessment (“ESA”) for the property located on the east side of County Road 27 and north of Salem Road, in the City of Barrie, Ontario (the “Site” or “Phase One Property”).

The Site is currently vacant, and we understand that the Client intends to carry out a residential development consisting of 199 townhouses and up to approximately 242 medium density units at the Site. The Phase One ESA was conducted generally following the procedures specified in Ontario Regulation 153/04 (“O. Reg. 153/04”), as amended, and was completed in support of the application of the proposed development. It should be noted that a record of site condition (“RSC”) is not requested at this time. If filing a RSC with the Ministry of the Environment, Conservation and Parks (“MECP”) is needed in the future, further consultation and/or work will be required.

The purpose of this Phase One ESA was to assess Potentially Contaminating Activities (“PCAs”) that have occurred within Phase One Property boundaries, and on the properties within 250 m radius from the boundaries of it (“Phase One Study Area”) and indicate the Areas of Potential Environmental Concerns (“APECs”) at the Site to assess the need for further investigation in the form of a Phase Two ESA.

GeoPro conducted the site reconnaissance on April 23, 2018. The weather was sunny and the temperature was 13°C. The following findings provide a summary of the Phase One ESA based on review of readily available records, interviews with persons knowledgeable about the Site, and observations made during the site reconnaissance:

- 1) The Phase One Property consists of one (1) irregularly shaped parcel of land with a total area of about 270,000 m² (or 27.0 hectares).
- 2) Reportedly, the Phase One Property remains undeveloped, and the north portion of the Site has been a farmland since 1989.
- 3) The PCAs, APECs and contaminants of potential concern (“COPCs”) that were found at the Site and are summarized in the table below.

APEC	Location of APEC	PCA Number	Location of PCA	COPCs	Media Potentially Impacted
APEC 1	North portion of the Site	#40	<u>On-Site:</u> Application of pesticide	Metals, OC-pesticides	Soil
APEC 2A	Northeast portion of Site where the fill pile presents	#30	<u>On-Site:</u> Northeast portion of Site where the fill pile presents	PCB, PHCs, VOCs, PAHs, metals, inorganics	Soil
APEC 2B	Northeast boundary of Site	#30	<u>Off-Site:</u> Lot 2 Con 11	PCB, PHCs, VOCs, PAHs, metals, inorganics	Soil and groundwater
APEC 3	Southeast boundary of the Site	#58	<u>Off-Site:</u> South half of Lot 1 Con 11	PCB, PHCs, VOCs, PAHs, metals, inorganics	Soil and groundwater

APEC 4A	Southwest corner of the Site	#28	<u>Off-Site</u> 7975 County Rd 27	PHCs, VOCs, PAHs, metals	Soil and groundwater
APEC 4B	Center portion of south boundary of the Site	#28	<u>Off-Site</u> 500 Salem Rd	PHCs, VOCs, PAHs, metals	Soil and groundwater
APEC 5A	Southeast corner of south portion of the Site	#12, #58, Other	<u>Off-Site</u> 4165 Salem Rd	PCB, PHCs, VOCs, PAHs, metals, inorganics	Soil and groundwater
APEC 5B	Center portion of south boundary of the Site	Other	<u>Off-Site</u> 441 Salem Rd	PCB, PHCs, VOCs, PAHs, metals	Soil and groundwater

Note: PCAs described specifically for the Phase One Property with reference to the applicable item number in the Table of Potentially Contaminating Activities provided in Schedule D of *O.Reg.153/04* as amended, where applicable.

#12 – Concrete, cement and lime manufacturing

#28 - Gasoline and Associated Products Storage in Fixed Tanks

#30 – Importation of Fill Material of Unknown Quality

#40 – Pesticides manufacturing, processing, bulk storage and land-scale applications

#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners

PHCs – Petroleum Hydrocarbons

PCBs – Polychlorinated Biphenyl

PAHs – Polycyclic Aromatic Hydrocarbons

VOCs – Volatile Organic Compounds

OC-Pesticides- Organochlorine Pesticides

Based on the findings of the Phase One ESA, GeoPro offers the following recommendations.

- 1) Conduct a Phase Two ESA at the Site to characterize the subsurface soil and groundwater conditions at the Phase Two Property and assess areas of the Phase Two Property where contaminants may be present in soil or groundwater.
- 2) If filing a RSC with the Ministry of the Environment, Conservation and Parks (“MECP”) is needed in the future, further consultation and/or work will be required.

NOTE: This executive summary provides a brief overview of the study findings. It is not intended to substitute for the complete report, nor does it detail specific issues discussed within the report. This summary is not to be adopted in lieu of reading the complete report.

2.0 INTRODUCTION

GeoPro Consulting Limited (“GeoPro”) was retained by Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI (the “Client”) to conduct a Phase One Environmental Site Assessment (“ESA”) for the property located on the east side of County Road 27 and north of Salem Road, in the City of Barrie, Ontario (the “Site” or “Phase One Property”). The approximate site location is shown on Drawing No. 1.

The Site is currently vacant, and we understand that the Client intends to carry out a residential development consisting of 199 Townhouses and up to approximately 242 medium density units at the Site. The Phase One ESA was conducted generally following the procedures specified in Ontario Regulation 153/04 (“O. Reg. 153/04”), as amended, and was completed in support of the application of the proposed development. It should be noted that a record of site condition (“RSC”) is not requested at this time. If filing a RSC with the Ministry of the Environment, Conservation and Parks (“MECP”) is needed in the future, further consultation and/or work will be required.

The purpose of this Phase One ESA was to assess Potentially Contaminating Activities (“PCAs”) that have occurred within the Phase One Property boundaries, and on the properties within a 250 m radius from the boundaries of it (“Phase One Study Area”) and indicate the Areas of Potential Environmental Concerns (“APECs”) at the Site to assess the need for further investigation in the form of a Phase Two ESA.

2.1 Phase One Property Information

A copy of Draft Plan dated on December 5, 2018 for the Phase One Property is provided in Appendix A. The information of the Phase One Property is provided in the table below.

Municipal Address	Not available		
Legal Description	- Part Lot 1 Concession 11, Township of Innisfil. - Part of the South Half of Lot 1, Concession 3, Township of Innisfil, City of Barrie, County of Simcoe (as per Concept Plan A-6 provided by the Client) - Part of the South Half of Lot 1, Concession 11, (Geographic Township of Innisfil), County of Simcoe: Parts 1, 2 and 3 Plan 51R-35542 (as per interview questionnaire)		
Parcel Identification Numbers (“PIN”)	Not available		
Roll Number	434209001819000 (as per County of Simcoe Interactive map)		
Area	27.0 hectares (approximately 270,000 m ²)		
UTM (NAD 83)	Zone 17	601253.6 m East	4907931.03 m North
Owner Contact	Di Poce Management Inc.		N/A
Client Contact	Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI		Mr. Nelson Lee Phone: 905-738-6100 ext. 284 Email: nlee@schaeffers.com
Current Occupant(s)	No occupants (Vacant land)		
Current Zoning	Residential Area with Natural Heritage System (City of Barrie, Salem Secondary Plan, Schedule 8C – Land Use Plan, January 2017)		
Proposed Future Land Use	Residential Use		

3.0 SCOPE OF INVESTIGATION

The general scope of work for the Phase One ESA consisted of the following tasks:

- A data search and review for the Phase One Property and the neighbouring properties in the Phase One Study Area (including review of previous Phase I and Phase II ESA and/or other reports);
- Interviews with persons knowledgeable about the Site;
- Site reconnaissance;
- An assessment and evaluation of the information gathered; and
- Preparation of a report summarizing the findings of the Phase One ESA.

4.0 RECORDS REVIEW

4.1 Summary of General Record Review

GeoPro carried out a review of readily available records which included a review of available physical settings, current and historical information sources regarding the Site, including, but not limited to, aerial photographs, city directories, fire insurance plans (“FIPs”), ownership titles, historical environmental site assessment, site operating records, a regulatory data base search (i.e. MECP Freedom of Information (“FOI”) and Technical Safety & Standard Authority (“TSSA”) record), and the MECP water well records. Information sources and review findings are summarized in the tables below.

Phase One Study Area Determination

Default Phase One Study Area as per O. Reg. 153/04, as amended	Potentially Contaminating Properties Near or Adjacent to the Default Area	Selected Phase One Study Area
250 m from the property boundary	No properties with evidence of significantly environmental concerns were noted.	as per default Phase One Study Area

First Developed Use Determination

Record / Source	Review Findings
Historical Aerial Photographs	The Site remains undeveloped, and the north portion of the Site has been a farmland since 1989.
Interview	
Site Reconnaissance	

Fire Insurance Plans (“FIPs”)

A review of the Fire Insurance Plan was carried out at Toronto Reference Library. The FIP of the City of Barrie dated 1971 was reviewed, but no record was found for the Site and the surrounding properties within a 250 m radius of the Phase One Property.

Chain of Title

No Chain of Title was provided by the Client for GeoPro to review. Based on the interview, the Phase One Property was owned by Equity Corp. and has been owned by the current owner since July 2007.

Previous Reports

The Phase One ESA was completed concurrently with a geotechnical investigation carried out by GeoPro at the Site. The results of the geotechnical investigation were summarized in the report entitled “Geotechnical Investigation, Proposed Residential Developments, County Road 27, Barrie, Ontario” dated June 1, 2018, prepared by GeoPro.

The intrusive investigation consisted of advancement of twenty-six (26) boreholes (BH1 to BH26) drilled to depths ranging from 3.7 to 15.3 m below the existing ground surface (“mBGS”), and installation of nine

(9) monitoring wells in the selected advanced boreholes. Fill materials consisting of organic sandy silt to organic silt, sandy silt, sand and silt, silty sand and gravelly sand were encountered in Boreholes BH4 and BH16 below the topsoil or granular base/subbase, and extended to the depths ranging from about 0.6 to 2.1 mBGS. No bedrock was encountered at the maximum drilled depth of approximately 15.3 mBGS. The measured groundwater levels ranged from 0.23 to 14.83 mBGS.

It should be noted that boreholes BH4 and BH16 are drilled outside the Phase One Property. Therefore, no fill material was encountered in the boreholes drilled at the Phase One Property.

City Directories

Record Years	Investigation Area	Review Findings
1963, 1980, 1994-95, 1996-97 and 1998-99	Phase One Property and the properties within the Phase One Study Area	No records were found to have environmental concerns

4.2 Environmental Source Information

4.2.1 Environmental Database Search

A records and regulatory agency databases review was completed through a database search carried out by Environmental Risk Information Services ("ERIS"). The ERIS report includes a search of federal, provincial and private database records for the Site and the surrounding properties within 250 m from the Phase One Property.

A summary of the findings in all the databases searched by ERIS is presented in following table.

Address	Database	Findings
South half of Lot 1, Concession 11, Innisfill, ON, LOL 1X0	WDS	Registered for MTO Holly Pit Landfill Site for waste disposal site.
	WDSH	Registered for closed landfill for municipal/domestic waste.
	ANDR	Registered for a waste disposal site.
4165 Salem Rd	GEN	Registered for Holcim (Canada) Inc. and CRH Canada Group Inc. Dufferin Concrete as waste generators for aliphatic solvents, waste oils, waste crankcase oils, lubricants, petroleum distillates, oil skimmings, sludges, light fuels and other specified inorganics; and Unilock Ltd as a waste generator of paint/pigment/coating residues, inorganic laboratory chemicals, waste oils, lubricants, organic laboratory chemicals and waste compressed gases.
	LIMO	Registered for Ministry of Transportation for a closed small landfill.
	NPRI	Registered for Dufferin Concrete for cement, concrete and ready-mix product manufacturing
441 Salem Rd	GEN	Registered for Unilock Ltd as a waste generator for petroleum distillates, acid waste-heavy metals, paint/pigment/coating residues, waste compressed gases including cylinders, polymeric resins, amines, waste oils, lubricants and waste crankcase oils.

ANDR – Anderson's Waste Disposal Site

GEN - Ontario Regulation 347 Waste Generators Summary

LIMO – Landfill Inventory Management Ontario

NPRI – National Pollutant Release Inventory

WDS - Waste Disposal Sites – MOE CA Inventory

WDSH - Waste Disposal Sites – MOE 1991 Historical Approval Inventory

Note: Only records which may have environmental concerns on the Phase One Property are listed for further assessment. A copy of the ERIS report is presented in Appendix C.

4.2.2 Summary of Regulatory Records Review

Regulatory records review included the MECP's FOI search and TSSA record search. A copy of the correspondences is included in Appendix D. A summary of the regulatory records review is provided in the tables below.

MECP FOI Search

Request Departments	Request Documents	Request Date	Result	Finding
MECP FOI and Privacy Office	Documented environmental concerns and citations pertaining to the Site	April 2, 2018	The response letter from MECP dated May 15, 2018 indicates that no records were found for the Site	No evidence of environmental concerns was noted.

TSSA Record Search

Request Departments	Request Documents	Request Date	Result	Finding
Technical Standards and Safety Authority	Records of storage tanks pertaining to the Site	March 29, 2018	An email reply dated April 2, 2018 from TSSA indicated that no records for fuel storage tanks were found on Site or on adjacent properties	No evidence of environmental concerns was noted.

4.3 Physical Setting Sources

A summary of information obtained in term of the physical settings of the Phase One Property and the Phase One Study Area is provided in the following tables.

4.3.1 Aerial Photographs

Aerial photographs were reviewed for a visual chronology of previous land uses on the Phase One Property and the properties within the Phase One Study Area.

Aerial photographs for the years 1954, 1989, 2002, 2008 and 2016 were obtained from the County of Simcoe Interactive Map. Copies of the aerial photographs are presented in Figures No. 1 to No. 5.

A summary of the observed features in the aerial photographs of the Phase One Property and Phase One Study Area are presented in the following table.

Year	Findings	
	Phase One Property	Phase One Study Area
1954	· Vacant or agricultural use lands · Bear Creek as labeled on Figure No. 1	· Vacant or agricultural use lands. · County Road 27 and Salem Road as labeled on Figure No. 1 · Bear Creek as labeled on Figure No. 1
1989	· Similar to 1954 Photograph · North portion of the Site was noted to be a farmland.	· More residential houses were noted
2002	· Similar to 1989 Photograph	· Residential development was noted on the north adjacent property of the Site. · A water pond was noted on the south adjacent property of the Site. · Selkirk Crescent, Loughheed Road and Columbia Road as labeled on Figure No. 3.
2008	Similar to 2002 Photograph	Similar to 2002 Photograph
2016	Similar to 2008 Photograph	Similar to 2008 Photograph

4.3.2 General Physical Settings

Physiography

Based on the data obtained from Ontario Geological Survey (“OGS”) database, the physiography of the Site and the Phase One Study Area is summarized in the following table.

Record Source	Physiography Region	Physiography Areas
Online Physiography Map of Southern Ontario	Peterborough Drumlin Field	Till Plains (Drumlinized)

Quaternary Geology

Based on the data obtained from the OGS database, the quaternary geology of the Site and the Phase One Study Area is summarized in the following table.

Record Source	Deposit Types
Online Quaternary Geology Map of Ontario	Newmarket Till deposits consisting of sandy silt to silt matrix, moderate to high in matrix carbonate content, clast content moderate to high.

Bedrock Geology

Based on the data obtained from the OGS database, the bedrock geology of the Site and the Phase One Study Area is summarized in the following table.

Record Source	Geological Period	Bedrock Type	Bedrock Depth (mBGS)
Bedrock Geology Map of Ontario	Middle Ordovician	Limestone, dolostone, shale, arkose, sandstone	Approximately 152

Hydrology

Based on the data obtained from the database maintained by the local conservation authority, the hydrology in regard with the local watershed and open water body on the Site and the Phase One Study Area is summarized in the following table.

Watershed	Subwatershed	On-Site Open Water	Nearest Off-Site Open Water			
			Name	Distance from the Site	Flow Direction	Discharge Location
Nottawasaga Valley Watershed	Middle Nottawasaga River Reach	A tributary of Bear Creek flows from southeast to northwest in the west portion of the Site	A tributary of Bear Creek	100 m north	north-westerly	Nottawasaga River (11 km northwest of the Site)

Topography

Based on the data obtained from Canada Atlas – Toporama, the topography of the Site and the Phase One Study Area is summarized in the following table.

Record Source	Topography	Slope Direction	Elevation Range (mASL)	Note
Canada Atlas – Toporama	Relatively flat with gentle slope	Generally towards north: East side of the on-site Bear Creek towards northwest; West side of the on-site Bear Creek towards northeast.	320 - 280	Shown in Figure No. 6

mASL - meters above sea level

Inferred Shallow Groundwater Flow Direction

Controlling factors	Flow Direction	Discharge Location
Topography	Generally flows in a north direction: East side of the on-site Bear Creek flows northwest;	A tributary of Bear Creek
Distribution of nearby open water body	West side of the on-site Bear Creek flows northeast.	

Water Bodies

Record Source	Review Findings
Ministry of Natural Resources and Forestry's Natural Heritage Map (Figure No.7)	A tributary of Bear Creek flows from southeast to northwest in the west portion of the Site; another tributary of Bear Creek is located about 100 m north of the Site.
City of Barrie - Salem Secondary Plan	
Oak Ridges Moraine Conservation Plan	
Niagara Escarpment Plan	

Areas of Natural Significance

Based on the data obtained from the database maintained by Ministry of Natural Resources and Forestry ("MNRF") and on the local official plan, assessment of areas of natural significance of the Site and the Phase One Study Area is made and summarized in the following table.

Areas of Natural Significance	Data Source	Findings or Comments on the Site and the Phase One Study Area
Provincial Park or Conservation Reserve	MNRF	Beyond the Phase One Property and Phase One Study Area
Areas of Natural Significance and Scientific Interest (ANSI)	MNRF	
Niagara Escarpment area	MNRF	
Oak Ridges Moraine area	MNRF	
Provincial Significant Wetland	MNRF	
Local environmentally sensitive area	Salem Secondary Plan City of Barrie (Schedule 8C, Land Use Plan)	Within a natural heritage system

Woods were noted in the south portion of the Phase One Study Area; a further study should be considered to evaluate the presence of area of natural significance in the neighboring properties.

Well Records

Based on the MECP Water Well Records database, a total of twelve (12) water wells were recorded on or near the Phase One Properties, of which seven (7) records are water supply wells. A summary of water well records is included in Appendix E and is presented in the following table.

Well Location	Well Type	Well Number
Phase One Property	Domestic	3
	Monitoring	1
Phase One Study Area	Domestic	4
	Industrial	1
	Monitoring	1
	Not used	1
	Unknown	1
Total Well Records:		12

Based on the records, water was encountered at a depth of about 2.43 mBGS to 71.62 mBGS. No bedrock was encountered at the maximum recorded depth of 72.84 mBGS.

Wellhead Protection Area (WHPA)

Based on MECP Source Water Protection Information Atlas, the Site and the Phase One Study Area are not located within a WHPA. However, the Phase One Property and Study Area are located in a highly vulnerable aquifer zone.

4.4 Site Operating Records

No site operating records were provided by the Client for GeoPro to review.

5.0 INTERVIEW

A summary of the interview GeoPro completed is provided in the following table.

Item	Information
Date and Place of Interview	Questionnaire form completed on July 30, 2018
Interview Method	Completion of interview questionnaire form. A copy of the completed interview questionnaire form is included in Appendix F.
Person Interviewed	Rob Henry, a worker who has farmed the land for 15 years
Relevant Information Concerning PCAs	Round Up, an herbicide, has been used on Site "Roundup" (or Glyphosate is broad-spectrum systemic herbicide and crop desiccant) has been used/stored on site
Notes	Other relevant information obtained from the interview was also incorporated in this report.

6.0 SITE RECONNAISSANCE

The site reconnaissance consisted of a visual inspection of the Phase One Property and observation of the neighbouring properties using public access ways to observe the presence/absence of PCAs, water bodies and areas of natural significance.

Selected photographs taken during the site reconnaissance are provided in Appendix G.

6.1 General Conditions

General situations encountered during the site reconnaissance are summarized in the following table.

Item	Information
Date	April 23, 2018
Weather Conditions	13 °C, sunny
Length of Site Reconnaissance Time	3 hours
Impediments	No access to the woody area in the south portion of the Phase One Property.
Name and Qualifications of the Person Conducting the Site Reconnaissance	Maria Benitez, M.Eng, E.I.T. conducted the site reconnaissance. The Phase One ESA was supervised by David Liu, P.Eng, QP _{ESA} .

6.2 Specific Observations at the Phase One Property

The following table summarizes the specific observations made during the site reconnaissance at the Phase One Property.

Item	Observations
Entire Phase One Property	
Site Location	East side of County Road 27 and north of Salem Road, in the City of Barrie, Ontario.
Current Occupants	No occupants – Vacant land; North portion of the Site was noted to be a farm land
Storage Tanks	No underground storage tanks (“USTs”) and above storage tanks (“ASTs”) were observed at the Phase One Property on the day of site reconnaissance.
On-Site Wells	No monitoring wells were observed at the Site on the day of site reconnaissance.
Underground Utilities	Trans-Canada Corporation gas crossing the property from north to south was observed at the Site on the day of site reconnaissance.
Watercourse, Ditches and Standing Water	On the day of site reconnaissance, a CMP culvert crossing the roadway of county Road 27 was observed on the west boundary of the Site near the northwest corner of the Site, where a tributary of Bear Creek flowing in a northwest direction was observed.
Rail Spurs	No rail spurs were observed at the Site on the day of site reconnaissance.
Stressed Vegetation	No stressed vegetation was observed at the Site on the day of site reconnaissance.
Fill and Debris Material	One (1) fill pile was noted near the east boundary of the Site on the day of site reconnaissance.
On-site Buildings or Structures	
Buildings or Structures	No buildings or structures were observed at the Site on the day of site reconnaissance.
Additional Potential Environmental Concerns – Designated Substances	
PCB	No material containing PCB was observed at the Site on the day of site reconnaissance.
Lead-based Paints (“LBP”)	No material containing LBP was observed at the Site on the day of site reconnaissance.

Item	Observations
Asbestos Containing Materials (“ACMs”)	No material containing ACMs was observed at the Site on the day of site reconnaissance.
Urea Formaldehyde Foam Insulation (“UFFI”)	No material containing UFFI was observed at the Site on the day of site reconnaissance.
Ozone Depleting Substances (“ODSs”)	No material containing ODSs was observed at the Site on the day of site reconnaissance.
Mold or Microbial Contamination	No material containing mold or microbial contamination was observed at the Site on the day of site reconnaissance.
Radon	Based on the Radon Potential Map of Ontario, the Site is located in an area with elevated radon hazard.

6.3 Observation of Neighboring Properties

At the time of the site reconnaissance, observations were also conducted on the neighbouring properties via publicly accessible areas. The Site and surrounding land use plan is provided on Drawing No. 2. The specific observations of the neighbouring properties are summarized in the following table.

Item	Observations
Adjacent Land Uses	North: residential South: residential and agricultural or other use; further south: roadway of Salem Road West: residential; further west: roadway of County Road 27 East: agricultural or other use
Water Body	A tributary of Bear Creek was observed approximately 100 m north of the Phase One Property within the Phase One Study Area.
Areas of Natural Significance	Woods were noted in the south portion and northeast corner of the Phase One Study Area; a further study should be considered to evaluate the presence of an area(s) of natural significance in the neighboring properties in the Phase One Study Area.
Other Observations	• A concrete manufacturing plant was observed at 4165 Salem Road on the day of site reconnaissance. • Excavators machinery and standing water were observed on the southeast adjacent property (southeast corner of Lot 1 Con 11) on the day of site reconnaissance. • One (1) oil tank was observed at property 500 Salem Road, and another one (1) was observed at 7975 County Road 27 on the day of site reconnaissance. • One (1) potable water well was observed at 508 Salem Road on the day of site reconnaissance. • Fill piles were noted on the east adjacent property (Lot 2, Con 11) on the day of site reconnaissance.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Current and Past Uses

Based on the historical aerial photography and interview, the Site has been vacant since 1954, and the north portion of the Site has been a farmland since 1989. Based on the interview, the Phase One Property was owned by Equity Corp. and has been owned by the current owner since July 2007.

7.2 PCAs

Based on the information obtained, PCAs were found on the off-site properties within the Phase One Study Area. The PCAs are summarized in the following table and shown in Drawing No. 3.

PCA Number	Operations or Activities	PCA Contributing to Environmental Concern	
Location: On-Site			
#30	Fill material of known quality (as per site visit)	Yes	Reason: - Environmental quality of the fill materials should be assessed.
#40	North portion of the Site has been a farmland (as per aerial photographs, interview questionnaire and site visit)	Yes	Reason: - Impact due to historical application of pesticides should be assessed.
Location: Lot 2 Con 11 – east adjacent property of the Phase One Property			
#30	Fill material of known quality (as per site visit)	Yes	Reason: - Environmental quality of the fill materials should be assessed. - Adjacent property of the Site
Location: South half of Lot 1 Con 11 – southeast adjacent property of the Phase One Property			
#58	Operation of landfill site (as per ERIS report).	Yes	Reason: - Hydraulically up-gradient of the Site - Adjacent property
Location: 4165 Salem Road – about 189 m southeast of the Phase One Property			
#12	Concrete manufacturing (as per ERIS report).	Yes	Reason: - Hydraulically up- to trans- gradient of the Site
Other	Waste generation (as per ERIS report).		
#58	Historical operation of landfill site (as per ERIS report).		
Location: 441 Salem Road – located about 225 m southeast of the Phase One Property			
Other	Waste generation (as per ERIS report).	Yes	Reason: - Hydraulically up- to trans- gradient of the Site
Location: 500 Salem Road – located about 75 m south of the Phase One Property			
#28	Presence of an oil storage tank on the west side of the residential house (as per site visit)	Yes	Reason: - Hydraulically up- to trans- gradient of the Site - about 75 m near the Site
Location: 7975 County Road 27 – located about 35 m south of the Phase One Property			
#28	Presence of an oil storage tank in the north side of a residential house (as per site visit)	Yes	Reason: - Hydraulically up- to trans- gradient of the Site - about 75 m near the Site

Note: PCA numbers are in accordance with Table 2, Schedule D of O. Reg. 153/04.

#12 – Concrete, Cement and Lime Manufacturing

#28 Gasoline and Associated Products Storage in Fixed Tanks

#30 – Importation of Fill Material of Unknown Quality

#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners.

7.3 APECs

Based on the above analyses of the indicated PCAs and associated environmental concerns, APECs were found in eight (8) areas on the Phase One Property. The APECs and associated PCAs and contaminants of potential concern (“COPCs”) are shown in Drawing No. 3 and summarized in the following table.

APEC	Location of APEC	PCA Number	Location of PCA	COPCs	Media Potentially Impacted
APEC 1	North portion of the Site	#40	<u>On-Site:</u> Application of pesticide	Metals, OC-pesticides	Soil
APEC 2A	Northeast portion of Site where the fill pile presents	#30	<u>On-Site:</u> Northeast portion of Site where the fill pile presents	PCB, PHCs, VOCs, PAHs, metals, inorganics	Soil
APEC 2B	Northeast boundary of Site	#30	<u>Off-Site:</u> Lot 2 Con 11	PCB, PHCs, VOCs, PAHs, metals, inorganics	Soil and groundwater
APEC 3	Southeast boundary of the Site	#58	<u>Off-Site:</u> South half of Lot 1 Con 11	PCB, PHCs, VOCs, PAHs, metals, inorganics	Soil and groundwater
APEC 4A	Southwest corner of the Site	#28	<u>Off-Site</u> 7975 County Rd 27	PHCs, VOCs, PAHs, metals	Soil and groundwater
APEC 4B	Center portion of south boundary of the Site	#28	<u>Off-Site</u> 500 Salem Rd	PHCs, VOCs, PAHs, metals	Soil and groundwater
APEC 5A	Southeast corner of south portion of the Site	#12, #58, Other	<u>Off-Site</u> 4165 Salem Rd	PCB, PHCs, VOCs, PAHs, metals, inorganics	Soil and groundwater
APEC 5B	Center portion of south boundary of the Site	Other	<u>Off-Site</u> 441 Salem Rd	PCB, PHCs, VOCs, PAHs, metals	Soil and groundwater

Note: PCAs described specifically for the Phase One Property with reference to the applicable item number in the Table of Potentially Contaminating Activities provided in Schedule D of *O.Reg.153/04* as amended, where applicable.

#12 – Concrete, cement and lime manufacturing

#28 – Gasoline and Associated Products Storage in Fixed Tanks

#30 – Importation of Fill Material of Unknown Quality

#40 – Pesticides manufacturing, processing, bulk storage and land-scale applications

#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners

PHCs – Petroleum Hydrocarbons

PCBs – Polychlorinated Biphenyl
PAHs – Polycyclic Aromatic Hydrocarbons
VOCs – Volatile Organic Compounds
OC-Pesticides - Organochlorine Pesticides

7.4 Phase One Conceptual Site Model (CSM)

A Phase One Conceptual Site Model (“CSM”) was prepared to present a summary of the findings of the Phase One ESA, and consists of this text report with appendices, and the following drawings:

- Drawing No. 1 – Site Location Plan
- Drawing No. 2 – Phase One Property and Surrounding Land Use
- Drawing No. 3 – PCA and APEC Locations

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 Conclusions

GeoPro conducted this Phase One ESA in general accordance with O. Reg. 153/04. Based on the findings of the Phase One ESA, PCAs were found on the Phase One Property as well as on the off-site properties within the Phase One Study Area. APECs were found to be present in eight (8) areas on the Phase One Property. The contaminants of potential concern include PHCs, PCBs, VOCs, PAHs, organochlorine-pesticides metals and inorganics in soil and/or groundwater.

8.2 Recommendations

Based on the findings of the Phase One ESA, GeoPro offers the following recommendations for your consideration.

- 1) Conduct a Phase Two ESA at the Site to characterize the subsurface soil and groundwater conditions at the Phase Two Property and assess areas of the Phase Two Property where contaminants may be present in soil or groundwater.
- 2) If filing a RSC with the Ministry of the Environment, Conservation and Parks (“MECP”) is needed in the future, further consultation and/or work will be required.

9.0 SIGNATURE

This report was conducted and supervised by David Liu, who is a Qualified Person with the MECP as defined under Ontario Regulation 153/04.

Kaiying Qiu is an assistant project manager with GeoPro. Ms. Qiu earned a Bachelor and Master of Science Degrees in Environmental and Earth Science from the University of Waterloo. She has been conducting Phase One and Two ESAs for GeoPro's clients since 2016.

David Liu is a principal engineer and geo-environmental specialist with GeoPro. Mr. Liu is a registered Professional Engineer with The Professional Engineers of Ontario and he has 26 years of experience in geo-environmental engineering.

We trust that the information contained in this report is complete within our terms of reference. If you have any questions or require further information, please do not hesitate to contact our office.

Sincerely,

GeoPro Consulting Limited

Geotechnical - Hydrogeology - Environmental - Materials Testing – Inspection



Kaiying Qiu, M.Sc.
Assistant Project Manager



David B. Liu, P.Eng., QP
Principal



10.0 REFERENCES

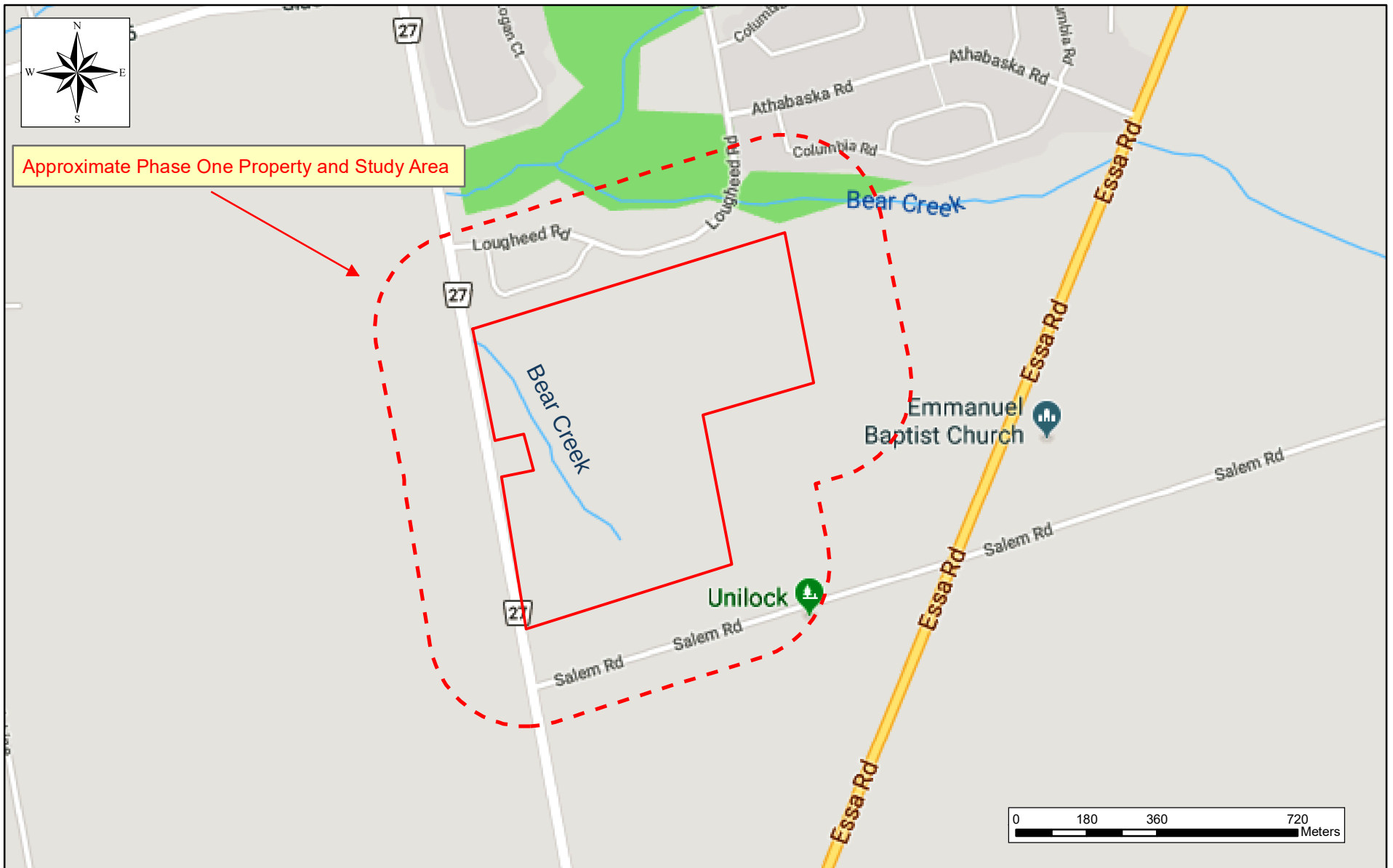
1. Ontario Regulation 153/04, as amended
2. Ministry of Environment, Conservation and Parks (“MECP”) interactive database
3. MECP - Source Water Protection Information Atlas
4. Ministry of Natural Resources and Forestry interactive database
5. Ontario Geological Survey (“OGS”) interactive database
6. The Atlas of Canada - Toporama
7. Google Maps
8. ArcGIS Basemap
9. County of Simcoe Interactive Maps
10. Technical Standards and Safety Authority
11. City of Barrie, Salem Secondary Plan, Schedule ‘8C’ Land Use Plan, 2017
12. Nottawasaga Valley Conservation Authority Sub-Watersheds map



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DRAWINGS

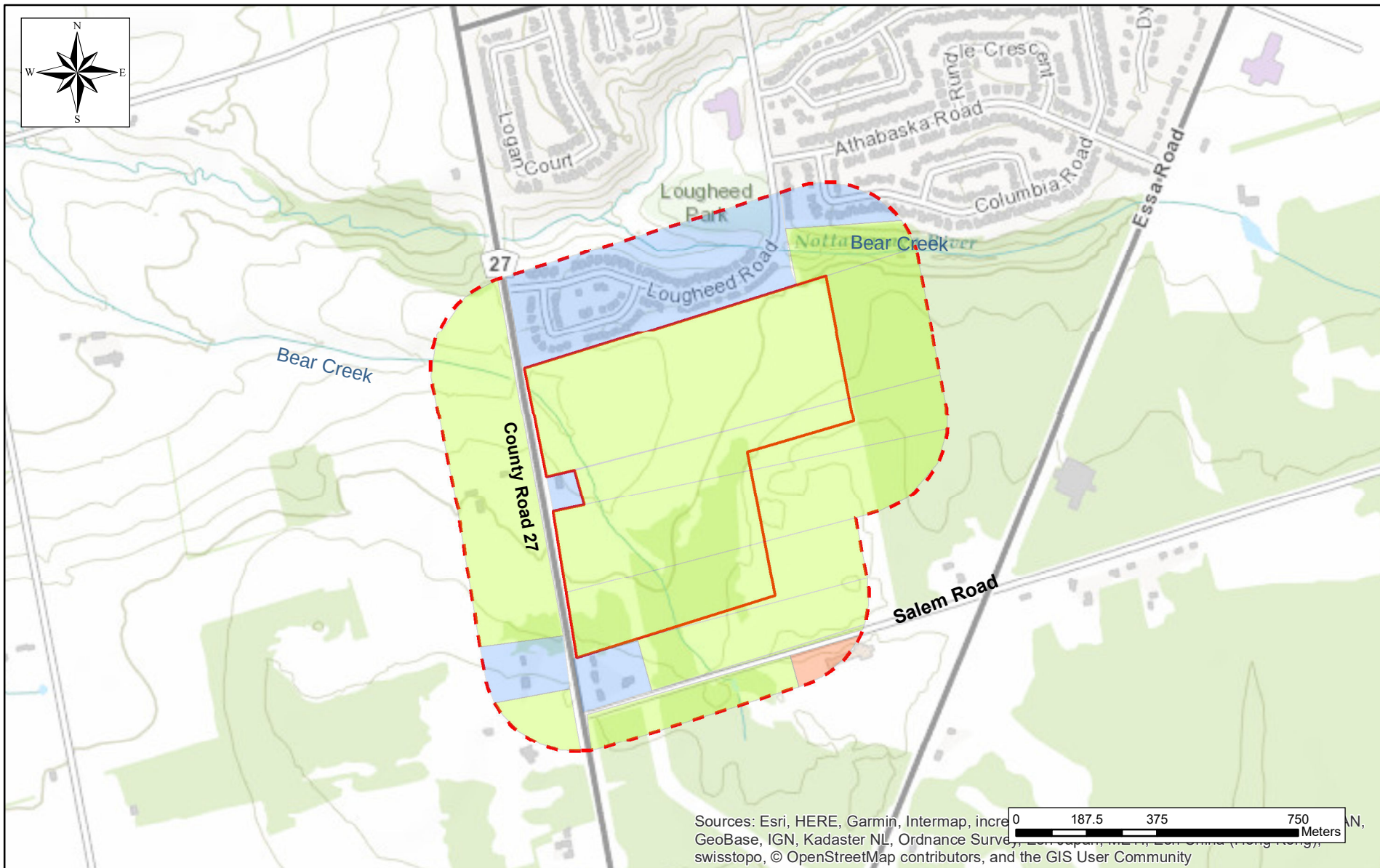


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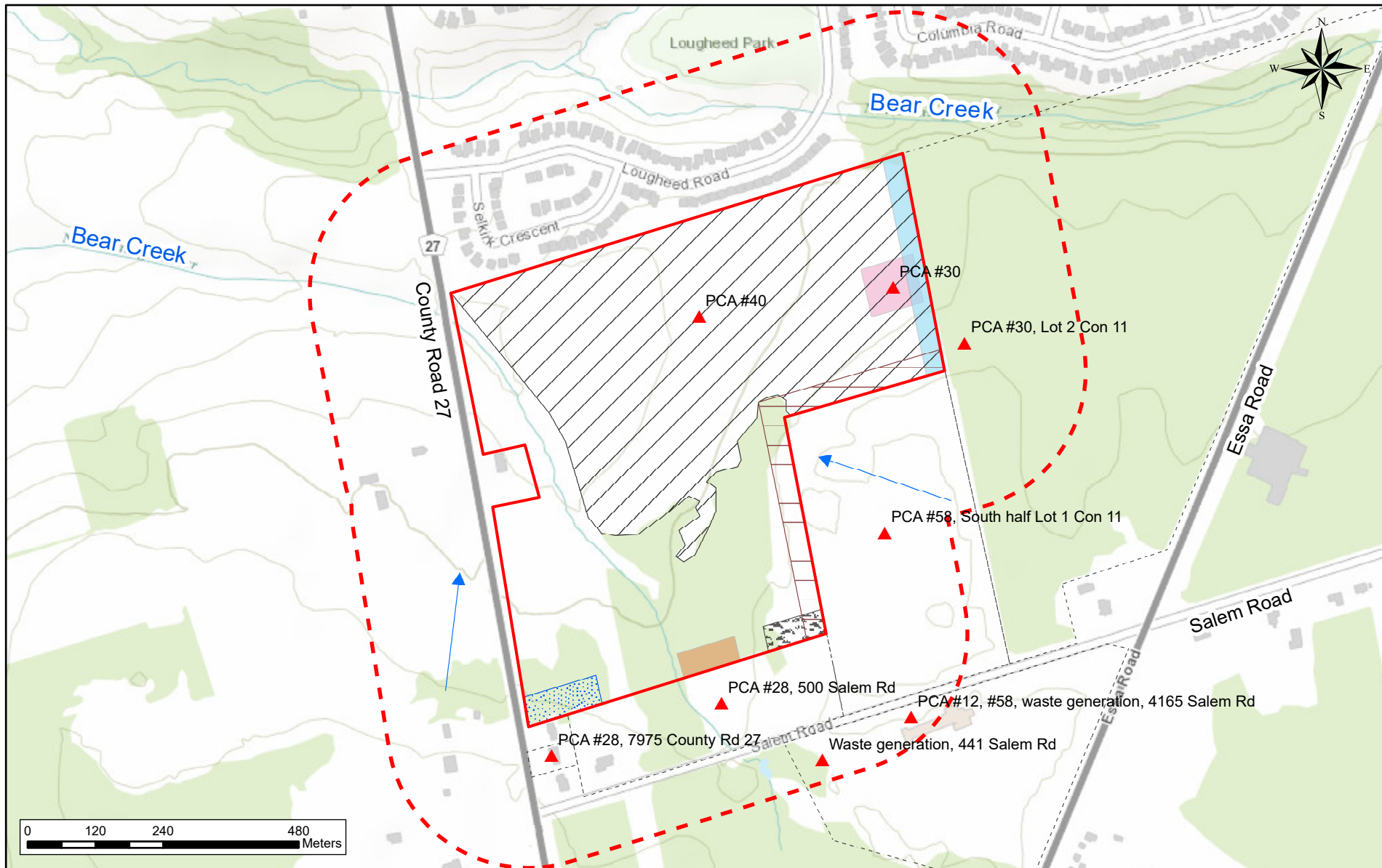
- Phase One Property
- Phase One Study Area

Map Source:
Google Maps

Prepared By: HA	Rev: KY	Approved: ky	Scale: As Shown	Project No.: 17-2099E	Drawing No.: 1	Original Size: Letter
Date: April 2018	Client: Di Poce Management Inc. c/o Oksana Vialyk, BBA, AACI	Title: Site Location Plan	Project: Phase One Environmental Site Assessment Proposed Residential Development East side of County Rd 27 and North of Salem Road Barrie, ON		 GeoPro Consulting Limited	



Legend Phase One Property Residential Use Agricultural/Other Use Phase One Study Area Commercial Use			Map Source: ArcGIS Basemap			
Prepared by: HA	Rev: KY	Approved: KY	Scale: As Shown	Project No.: 17-2099E	Drawing No.: 2	Original Size: Letter
Date: April 2018	Client: Di Poce Management Inc. c/o Oksana Vialyk, BBA, AACI	Title: Phase One Property and Surrounding Land Use	Project: Phase One Environmental Site Proposed Residential Development East Side of County Rd 27 and North of Salem Road, City of Barrie, ON		 GeoPro Consulting Limited	



Legend

Phase One Study Area	PCA Location	APEC 2A	APEC 4A
Phase One Property	#30 PCA Number	APEC 2B	APEC 4B/5B
Inferred Groundwater Flow Direction	APEC 1	APEC 3	APEC 5A

Notes:
 1. Map Source: ArcGIS Basemap
 2. Definitions:
 "COPCs" - Contaminants of Potential Concern
 "APEC" - Area of Potential Environmental Concern
 "PHCs" - Petroleum Hydrocarbons
 "VOCs" - Volatile Organic Compounds
 "PCBs" - Polychlorinated Biphenyls
 "PAHs" - Polycyclic Aromatic Hydrocarbon
 "OC-Pesticides" - Organochlorine Pesticides

3. Potentially Contaminating Activity ("PCA") numbers are in accordance with Table 2, Schedule D of O. Reg 153/04.
 #12 - Concrete, Cement and Lime Manufacturing
 #28 - Fertilizer manufacturing, processing and bulk storage
 #28 - Gasoline and associated products storage in fixed tanks
 #30 - Importation of fill material of unknown quality
 #40 - Pesticides (including herbicide, fungicides and anti-fouling agents) manufacturing, processing, bulk storage and large-scale applications
 #58 - Waste disposal and waste management, including thermal treatment, landfilling and transfer of waste, other than use of biosolids as soil conditioners

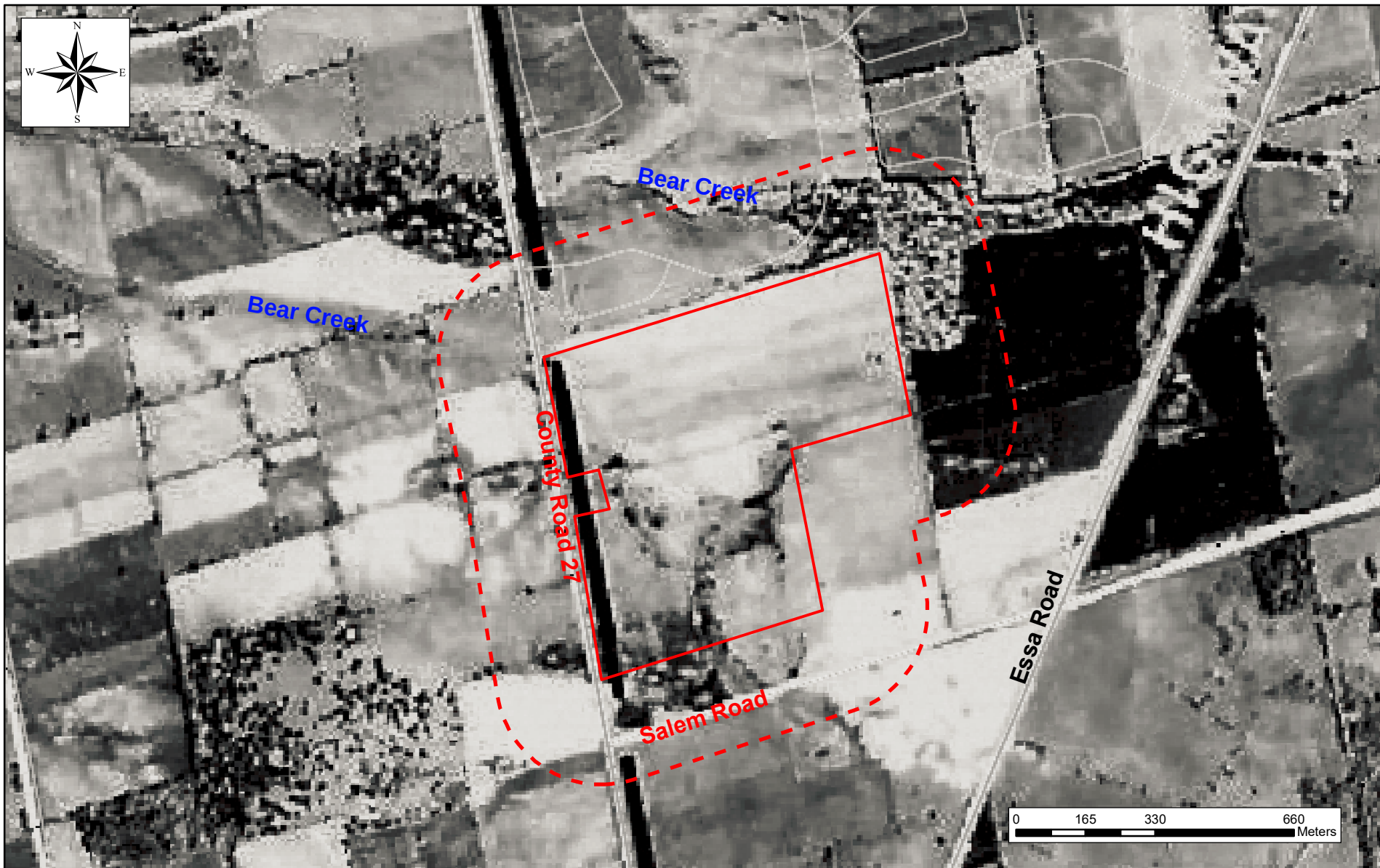
Prepared by: DS	Rev: KY	Approved: KY	Scale: As Shown	Project No.: 17-2099E	Drawing No.: 3	Original Size: Letter
Date: December 2018	Client: Di Poce Management Inc. c/o Oksana Vialyk, BBA, AACI	Title: PCA and APEC Location	Project: Phase One Environmental Site Proposed Residential Development East Side of County Rd 27 and North of Salem Road, City of Barrie, ON			



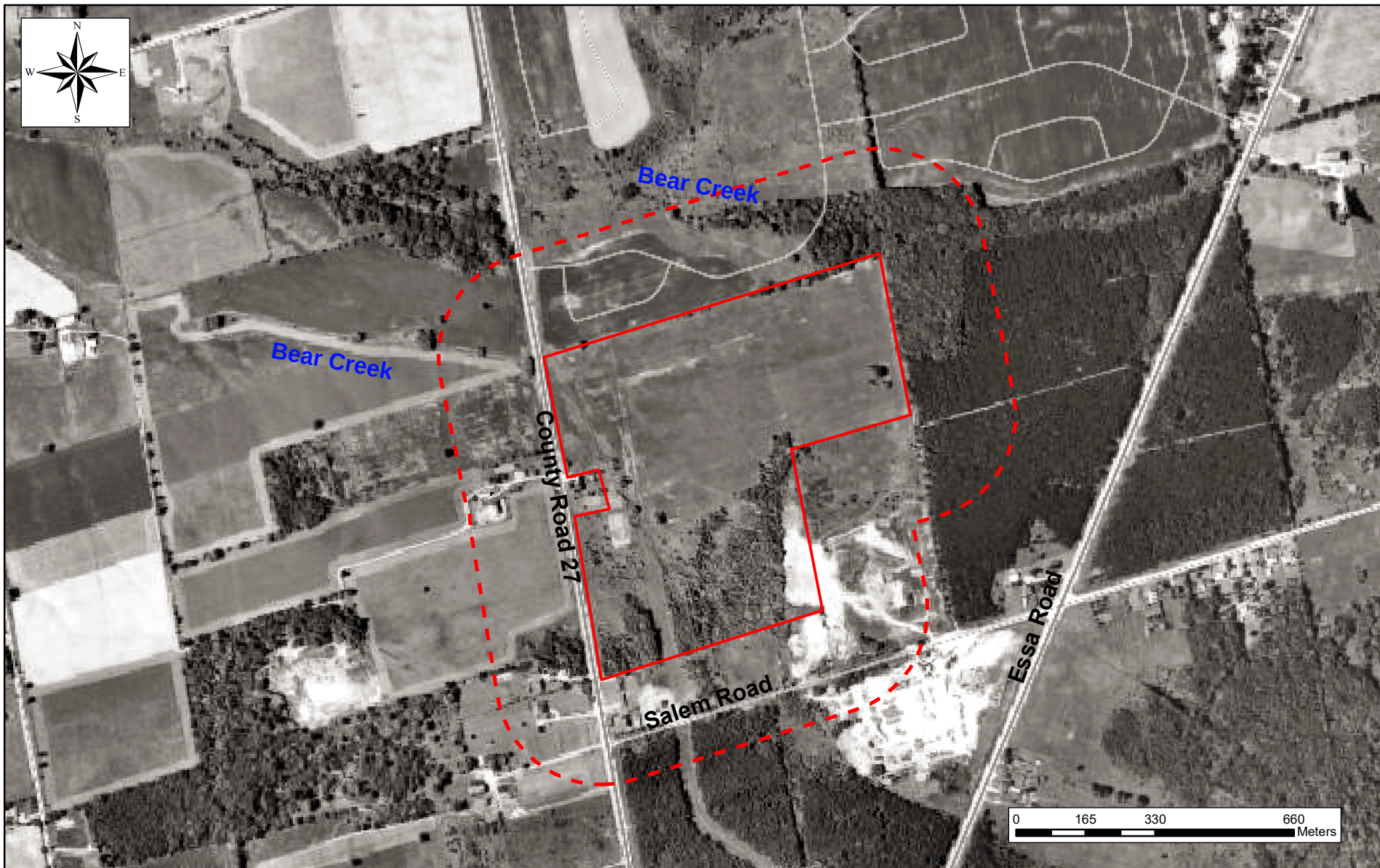
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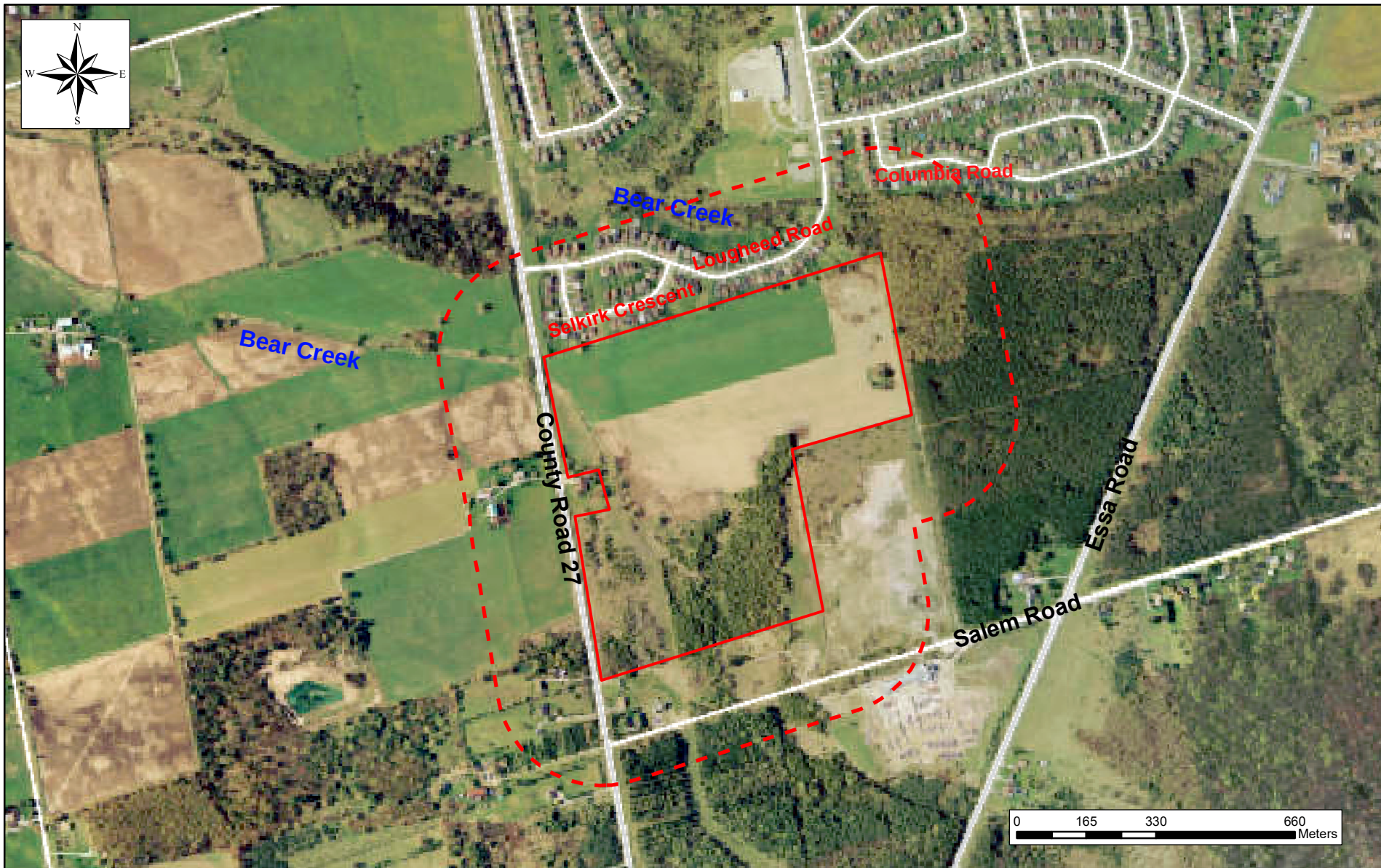
FIGURES



Legend Phase One Property Phase One Study Area		Salem Road Name of the newly developed roadway Essa Road Name of existing roadway Bear Creek Name of the watercourse	Map Source: County of Simcoe Interactive Map			
Prepared by: DS	Rev: KY	Approved: KY	Scale: As Shown	Project No.: 17-2099E	Figure No.: 1	Original Size: Letter
Date: April 2018	Client: Di Poce Management Inc. c/o Oksana Vialyk, BBA, AACI	Title: Aerial Photograph - 1954	Project: Phase One Environmental Site Assessment Proposed Residential Development East side of County Road 27 and north of Salem Road, City of Barrie, Ontario			



Legend Phase One Property Phase One Study Area Essa Road Name of existing roadway Bear Creek Name of the watercourse			Map Source: County of Simcoe Interactive Map			
Prepared by: DS	Rev: KY	Approved: KY	Scale: As Shown	Project No.: 17-2099E	Figure No.: 2	Original Size: Letter
Date: April 2018	Client: Di Poce Management Inc. c/o Oksana Vialyk, BBA, AACI	Title: Aerial Photograph - 1989	Project: Phase One Environmental Site Assessment Proposed Residential Development East side of County Road 27 and north of Salem Road, City of Barrie, Ontario			



Legend

- Phase One Property
- Phase One Study Area

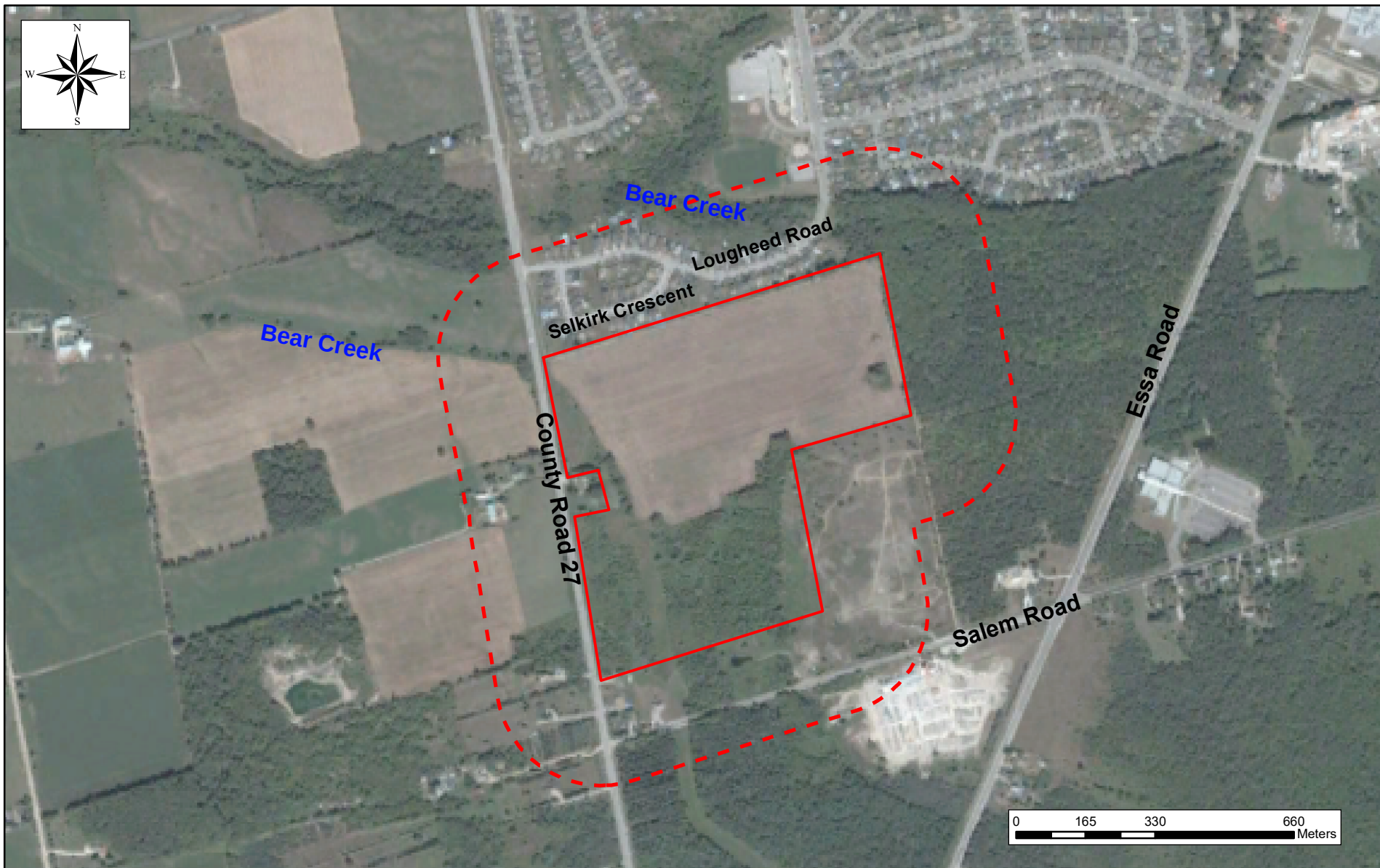
- Loughheed Rd Name of roadway newly developed
- Essa Road Name of existing roadway
- Bear Creek Name of the watercourse

Map Source:
County of Simcoe Interactive Map

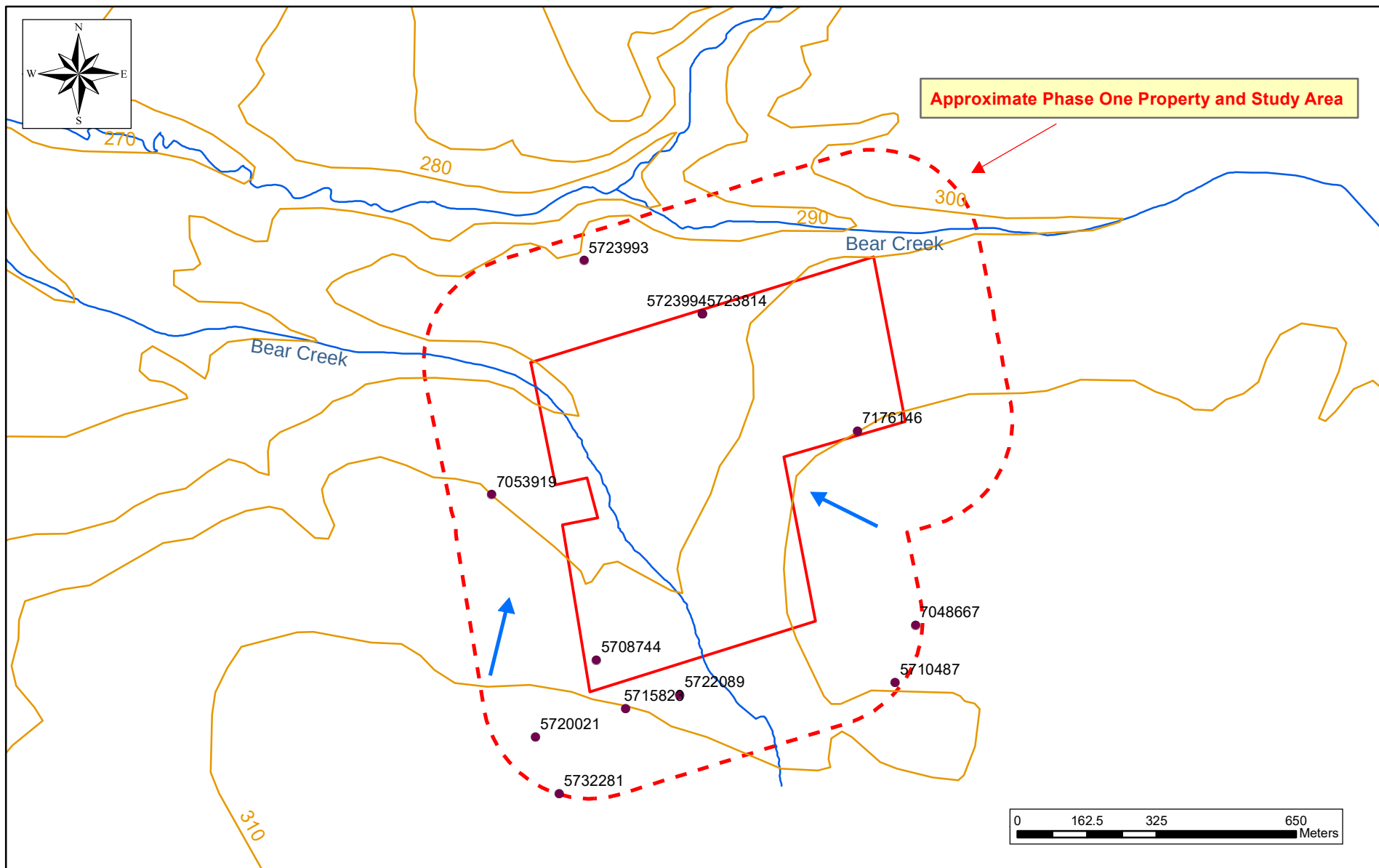
Prepared by: DS	Rev: KY	Approved: KY	Scale: As Shown	Project No.: 17-2099E	Figure No.: 3	Original Size: Letter
Date: April 2018	Client: Di Poce Management Inc. c/o Oksana Vialyk, BBA, AACI	Title: Aerial Photograph - 2002	Project: Phase One Environmental Site Assessment Proposed Residential Development East side of County Road 27 and north of Salem Road, City of Barrie, Ontario		 GeoPro Consulting Limited	



Legend Phase One Property Phase One Study Area Essa Road Bear Creek Name of existing roadway Name of the watercourse			Map Source: County of Simcoe Interactive Map			
Prepared by: DS	Rev: KY	Approved: KY	Scale: As Shown	Project No.: 17-2099E	Figure No.: 4	Original Size: Letter
Date: April 2018	Client: Di Poce Management Inc. c/o Oksana Vialyk, BBA, AACI	Title: Aerial Photograph - 2008	Project: Phase One Environmental Site Assessment Proposed Residential Development East side of County Road 27 and north of Salem Road, City of Barrie, Ontario			



Legend Phase One Property Phase One Study Area			Essa Road Name of existing roadway Bear Creek Name of the watercourse		Map Source: County of Simcoe Interactive Map		
Prepared by: DS	Rev: KY	Approved: KY	Scale: As Shown	Project No.: 17-2099E	Figure No.: 5	Original Size: Letter	
Date: April 2018	Client: Di Poce Management Inc. c/o Oksana Vialyk, BBA, AACI	Title: Aerial Photograph - 2016	Project: Phase One Environmental Site Assessment Proposed Residential Development East side of County Road 27 and north of Salem Road, City of Barrie, Ontario		 GeoPro Consulting Limited		



Legend Phase One Property ● MECP Well Record Location Phase One Study Area ➡ Inferred Groundwater Flow Direction			Map Source: Atlas of Canada - Toporama			
Prepared by: DS	Rev: KY	Approved: KY	Scale: As Shown	Project No.: 17-2099E	Figure No.: 6	Original Size: Letter
Date: April 2018	Client: Di Poce Management Inc. c/o Oksana Vialyk, BBA, AACI	Title: Topographical Map	Project: Phase One Environmental Site Assessment Proposed Residential Development East side of County Road 27 and north of Salem Road, City of Barrie, Ontario		 GeoPro Consulting Limited	

Figure No. 7- Natural Heritage Map



Legend

-  Assessment Parcel
-  Woodland
-  Conservation Reserve
-  Provincial Park
-  Natural Heritage System
-  Ecoregion
- Wetland**
 -  Provincially Significant Wetland Evaluated
 -  Non - Provincially Significant Wetland Evaluated
 -  Unevaluated Wetland
- Area of Natural Heritage & Scientific Interest (ANSI)**
 -  Provincially Significant Life Science ANSI
 -  Provincially Significant Earth Science ANSI
- Greenbelt Plan**
 -  Boundary
 -  River Valley Connections
- Land Use Designations**
 -  Protected Countryside
 -  Towns and Villages
 -  Hamlets
 -  Urban River Valley
 -  Specialty Crop Area
- Niagara Escarpment Plan (NEP)**
 -  Boundary
 -  Parks and Open Space System
- Land Use Designations**
 -  Escarpment Natural Area
 -  Escarpment Protection Area
 -  Escarpment Rural Area
 -  Mineral Resource Extraction Area
 -  Escarpment Recreation Area
 -  Urban Area
 -  Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)**
 -  Boundary
 -  Natural Core Area
 -  Natural Linkage Area
 -  Countryside Area
 -  Rural Settlement
 -  Palgrave Estates Residential Community
 -  Settlement Area

1.8 0 0.92 1.8 Kilometers

Scale: 1 : 36,111



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 Natural Resources and Forestry (OMNRF) shall not be liable in any way for the use of, or reliance upon, this map or any information on this map.

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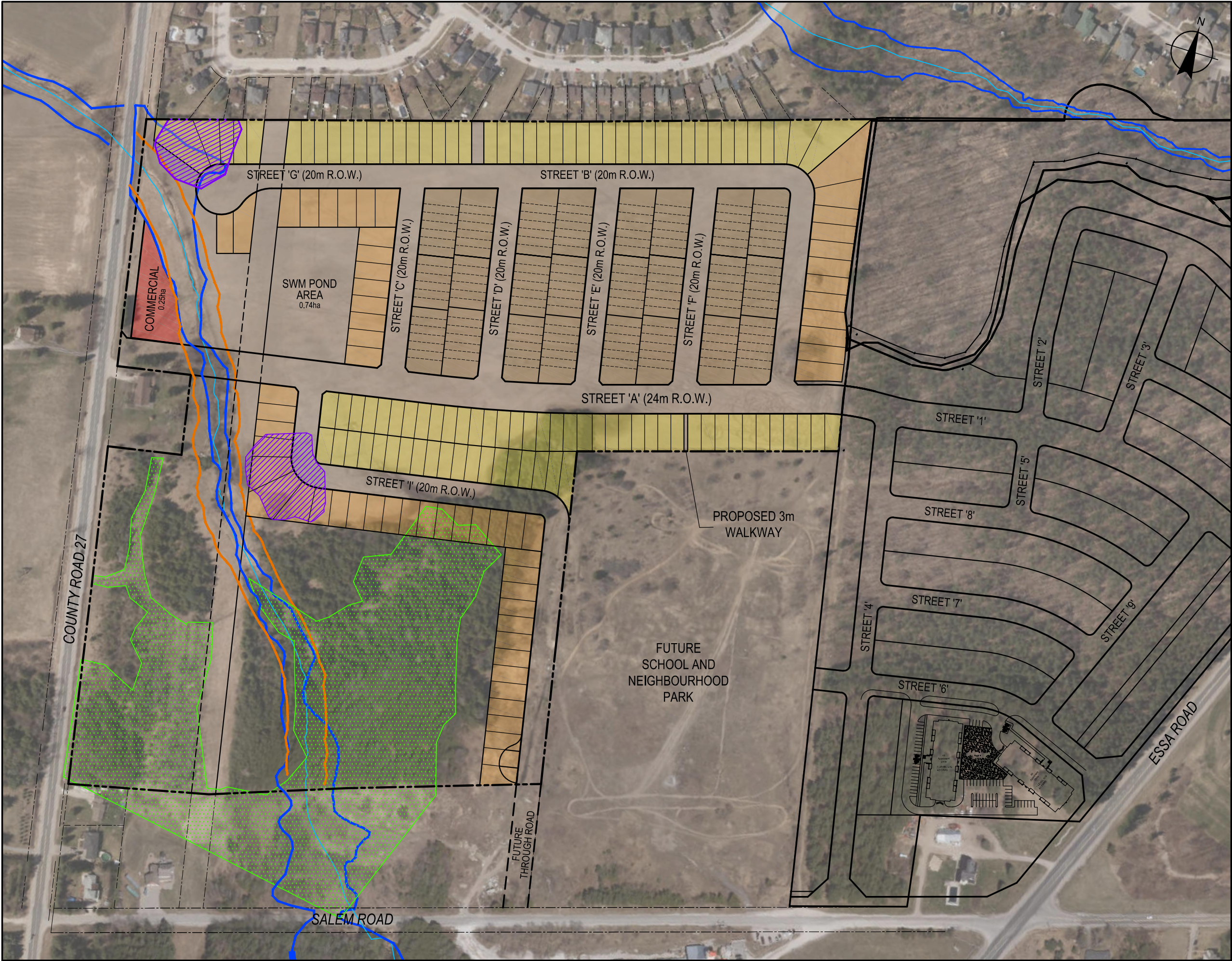
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APPENDIX A



CONCEPT PLAN 'A-6'

DIPOCE SUBDIVISION

Part of the South Half of Lot 1, Concession 3
Geographic Township of Innisfil
Formerly in the Town of Innisfil Presently in the City of Barrie
County of Simcoe

LEGEND

- Corridor
- Floodline
- Wetland
- Archaeology Sites

10.8m (35ft) Singles	101 Lots	3.91ha
13.8m (45ft) Singles	80 Lots	3.84ha
6.8m (22ft) Townhouses	166 Units	3.85ha
Commercial		0.25ha
TOTAL	347 Units	11.85ha

Density: 22.9 units/ha (based on 15.12ha)

DATE August 30, 2017

SOURCES J.D. Barnes - Plan of Survey - 02/12/07

SCALE 0 20 40 60 80 100 Metres

N:\Barrie\0853\FIDrawings\Concept Plans\ConceptPlan_A-6_2017-09-15



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APPENDIX B



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Geotechnical Investigation

Proposed Residential Developments

County Road 27, Barrie, Ontario

Prepared For:

Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI



GeoPro Project No.: 17-2099GE

Report Date: June 1, 2018

Professional, Proficient, Proactive

GeoPro Consulting Limited (905) 237-8336 office@geoproconsulting.ca

Units 25 to 27, 40 Vogell Road, Richmond Hill, Ontario L4B 3N6



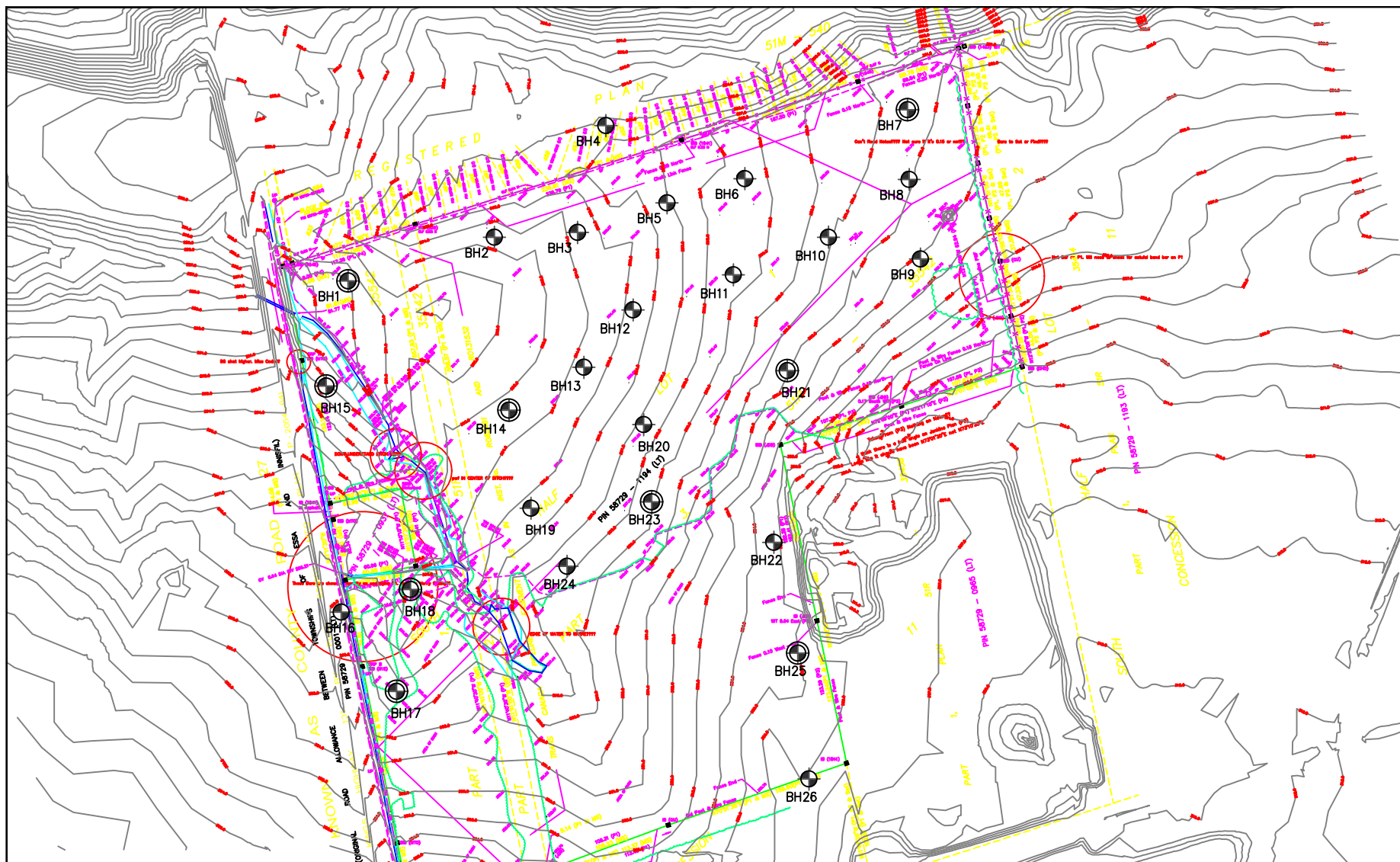
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DRAWINGS



Legend:  Borehole Location  Monitoring Well	Client: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI		Project No.: 17-2099GE	Drawing No.: 1
	Drawn: WF	Approved: DL	Title: Borehole Location Plan	
	Date: May, 2018	Scale: N.T.S	Project: Geotechnical Investigation Proposed Residential Developments County Road 27, Barrie, Ontario	
	Original Size: Letter	Rev: DX	 GeoPro Consulting Limited	



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ENCLOSURES



Enclosure 1A: Notes on Sample Descriptions

1. Each soil stratum is described according to the *Modified Unified Soil Classification System*. The compactness condition of cohesionless soils (SPT) and the consistency of cohesive soils (undrained shear strength) are defined according to Canadian Foundation Engineering Manual, 4th Edition. Different soil classification systems may be used by others. Please note that a description of the soil strata is based on visual and tactile examination of the samples augmented with field and laboratory test results, such as a grain size analysis and/or Atterberg Limits testing. Visual classification is not sufficiently accurate to provide exact grain sizing or precise differentiation between size classification systems.
2. Fill: Where fill is designated on the borehole log it is defined as indicated by the sample recovered during the boring process. The reader is cautioned that fills are heterogeneous in nature and variable in density or degree of compaction. The borehole description may therefore not be applicable as a general description of site fill materials. All fills should be expected to contain obstruction such as wood, large concrete pieces or subsurface basements, floors, tanks, etc., none of these may have been encountered in the boreholes. Since boreholes cannot accurately define the contents of the fill, test pits are recommended to provide supplementary information. Despite the use of test pits, the heterogeneous nature of fill will leave some ambiguity as to the exact composition of the fill. Most fills contain pockets, seams, or layers of organically contaminated soil. This organic material can result in the generation of methane gas and/or significant ongoing and future settlements. Fill at this site may have been monitored for the presence of methane gas and, if so, the results are given on the borehole logs. The monitoring process does not indicate the volume of gas that can be potentially generated nor does it pinpoint the source of the gas. These readings are to advise of the presence of gas only, and a detailed study is recommended for sites where any explosive gas/methane is detected. Some fill material may be contaminated by toxic/hazardous waste that renders it unacceptable for deposition in any but designated land fill sites; unless specifically stated the fill on this site has not been tested for contaminants that may be considered toxic or hazardous. This testing and a potential hazard study can be undertaken if requested. In most residential/commercial areas undergoing reconstruction, buried oil tanks are common and are generally not detected in a conventional preliminary geotechnical site investigation.
3. Till: The term till on the borehole logs indicates that the material originates from a geological process associated with glaciation. Because of this geological process the till must be considered heterogeneous in composition and as such may contain pockets and/or seams of material such as sand, gravel, silt or clay. Till often contains cobbles (60 to 200 mm) or boulders (over 200 mm). Contractors may therefore encounter cobbles and boulders during excavation, even if they are not indicated by the borings. It should be appreciated that normal sampling equipment cannot differentiate the size or type of any obstruction. Because of the horizontal and vertical variability of till, the sample description may be applicable to a very limited zone; caution is therefore essential when dealing with sensitive excavations or dewatering programs in till materials.



Enclosure 1B: Explanation of Terms Used in the Record of Boreholes

Sample Type

AS	Auger sample
BS	Block sample
CS	Chunk sample
DO	Drive open
DS	Dimension type sample
FS	Foil sample
NR	No recovery
RC	Rock core
SC	Soil core
SS	Spoon sample
SH	Shelby tube Sample
ST	Slotted tube
TO	Thin-walled, open
TP	Thin-walled, piston
WS	Wash sample

Penetration Resistance

Standard Penetration Resistance (SPT), N:

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in) required to drive a 50 mm (2 in) drive open sampler for a distance of 300 mm (12 in).

PM – Samples advanced by manual pressure

WR – Samples advanced by weight of sampler and rod

WH – Samples advanced by static weight of hammer

Dynamic Cone Penetration Resistance, N_d :

The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in) to drive uncased a 50 mm (2 in) diameter, 60° cone attached to “A” size drill rods for a distance of 300 mm (12 in).

Piezo-Cone Penetration Test (CPT):

An electronic cone penetrometer with a 60 degree conical tip and a projected end area of 10 cm² pushed through ground at a penetration rate of 2 cm/s. Measurement of tip resistance (Q_t), porewater pressure (PWP) and friction along a sleeve are recorded electronically at 25 mm penetration intervals.

Textural Classification of Soils (ASTM D2487)

Classification	Particle Size
Boulders	> 300 mm
Cobbles	75 mm - 300 mm
Gravel	4.75 mm - 75 mm
Sand	0.075 mm – 4.75 mm
Silt	0.002 mm-0.075 mm
Clay	<0.002 mm(*)

(*) Canadian Foundation Engineering Manual (4th Edition)

Coarse Grain Soil Description (50% greater than 0.075 mm)

Terminology	Proportion
Trace	0-10%
Some	10-20%
Adjective (e.g. silty or sandy)	20-35%
And (e.g. sand and gravel)	> 35%

Soil Description

a) Cohesive Soils(*)

Consistency	Undrained Shear Strength (kPa)	SPT “N” Value
Very soft	<12	0-2
Soft	12-25	2-4
Firm	25-50	4-8
Stiff	50-100	8-15
Very stiff	100-200	15-30
Hard	>200	>30

(*) Hierarchy of Shear Strength prediction

1. Lab triaxial test
2. Field vane shear test
3. Lab. vane shear test
4. SPT “N” value
5. Pocket penetrometer

b) Cohesionless Soils

Compactness Condition (Formerly Relative Density)	SPT “N” Value
Very loose	<4
Loose	4-10
Compact	10-30
Dense	30-50
Very dense	>50

Soil Tests

w	Water content
w _p	Plastic limit
w _l	Liquid limit
C	Consolidation (oedometer) test
CID	Consolidated isotropically drained triaxial test
CIU	consolidated isotropically undrained triaxial test with porewater pressure measurement
D _R	Relative density (specific gravity, G _s)
DS	Direct shear test
ENV	Environmental/ chemical analysis
M	Sieve analysis for particle size
MH	Combined sieve and hydrometer (H) analysis
MPC	Modified proctor compaction test
SPC	Standard proctor compaction test
OC	Organic content test
U	Unconsolidated Undrained Triaxial Test
V	Field vane (LV-laboratory vane test)
γ	Unit weight

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA											
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 155 mm					
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: HR						DATE: 2018-04-30					
DATUM: Geodetic						SAMPLE REVIEW: DX						REF. NO.: 17-2099GE					
BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 2					
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST				Natural Moisture Content				UNIT WT (kN/m ³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)	
ELEV. DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SHEAR STRENGTH (kPa)				Plastic Limit w _p	Natural Moisture Content w	Liquid Limit w _L				
							○ SPT 20	⌢ Cone 40	blows/0.3m 60	80							
289.7	TOPSOIL: (300 mm)																
289.4			1	SS	4												
0.3	REWORKED SILTY SAND TO SAND AND SILT: trace organics, trace rootlets, dark brown to brown, moist, loose		2	SS	8												
289.0																	
0.6	SILTY SAND TO SAND AND SILT: trace clay, trace gravel, organic stain, brown, wet, loose to compact		3A	SS	18												
288.1			3B	SS													
1.5	SAND AND SILT: trace clay, trace gravel, brown, moist to wet, compact																
287.6																	
2.1	SAND: some silt, trace gravel, containing cobbles and boulders, brown, moist, dense --- auger grinding		4A	SS	36												
287.1			4B	SS													
2.5	FINE SAND TO SILTY FINE SAND: brown, moist to wet, dense to very dense --- layers of clayey silt till																
			5	SS	69 / 280 mm												
285.6																	
4.0	SILTY SAND: trace to some gravel, trace clay, containing cobbles and boulders, brown, wet, very dense --- containing cobbles and boulders		6	SS	50 / 100 mm												
283.4			7	SS	50 / 140 mm												
6.2	END OF BOREHOLE																
Notes: 1) Water was encountered at a depth of 4.6 m below ground surface (mBGS) during drilling. 2) Borehole caved at a depth of 3.0 mBGS upon completion of drilling. 3) 51 mm dia. monitoring well was installed in borehole upon completion of drilling. Water Level Reading Date W. L. Depth (mBGS) May 11, 2018 3.23																	

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, X 3: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments

DRILLING DATA

CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI

METHOD: Continuous Flight Auger - Auto Hammer

DIAMETER: 155 mm

PROJECT LOCATION: County Road 27, Barrie, Ontario

FIELD ENGINEER: RR

DATE: 2018-04-24

DATUM: Geodetic

SAMPLE REVIEW: DX

REF. NO.: 17-2099GE

BH LOCATION: See Borehole Location Plan

CHECKED: DL

ENCL. NO.: 3

SOIL PROFILE			SAMPLES		GROUND WATER	DYNAMIC PENETRATION TEST				Plastic Limit			UNIT WT (kN/m ³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE		ELEVATION	○ SPT	≥ Cone	blows/0.3m	W _p	W	W _L		
292.7							20	40	60	80				GR SA SI CL
0.0	TOPSOIL: (310 mm)													
292.4			1	SS	8	292	○				○			
0.3	REWORKED SAND AND SILT: trace clay, trace gravel, trace organics, trace rootlets, dark brown, moist, loose to compact		2	SS	17		○				○			
291.5						291		○						
1.2	NO SAMPLE RECOVERY: likely sand and silt to silty sand		3	NR	30									
290.7														
2.1	SAND AND SILT TO SILTY SAND: trace clay, trace gravel, layers/zones of sandy silt, containing cobbles and boulders, brown, moist, dense to very dense --- auger grinding		4	SS	49	290			○		○			
			5	SS	39			○			○			5 69 23 3
						289								
			6	SS	62	288			○		○			
287.2						287								
5.6	SAND: trace to some silt, trace gravel, brown, moist, very dense													
286.5			7	SS	50 /									
6.3	END OF BOREHOLE Note: 1) Borehole was open and dry upon completion of drilling.				150 mm									

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

 +³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA													
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 155 mm							
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: RR						DATE: 2018-04-26							
DATUM: Geodetic						SAMPLE REVIEW: DX						REF. NO.: 17-2099GE							
BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 4							
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST				Natural Moisture Content				UNIT WT (kN/m ³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)			
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SHEAR STRENGTH (kPa)				Plastic Limit w _p	Natural Moisture Content w	Liquid Limit w _L	WATER CONTENT (%)					
							○ SPT 20	≧ Cone 40	blows/0.3m 60	80									
						● Unconfined ✕ Field Vane & Sensitivity ▲ Quick Triaxial ⓧ Penetrometer + Lab Vane													
294.3	0.0	TOPSOIL: (280 mm)																	
294.1	0.3	REWORKED SAND AND SILT: trace clay, trace gravel, trace organics, trace rootlets, pockets of topsoil, brown, moist, loose SAND AND SILT: trace to some gravel, trace clay, organic stain, containing cobbles and boulders, brown, moist to wet, loose to very dense ---layers of sand	1	SS	4														
293.7	0.6		2	SS	10														
293.4	1.0		3	SS	50 / 150 mm														
292.4	1.9	SAND AND SILT TO SILTY SAND: trace gravel, containing cobbles and boulders, brown, moist, very dense	4	SS	93 / 230 mm														
291.5	2.8		5	SS	50 / 80 mm														
290.4	3.9	GRAVELLY SAND: some silt to silty, layers of sandy silt, containing cobbles and boulders, brown, moist, very dense	6	SS	50 / 50 mm														
289.0	5.4		7	SS	50 / 80 mm														
288.2	6.2	auger grinding																	
END OF BOREHOLE																			
Note: 1) Borehole was open and dry upon completion of drilling.																			

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA										
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 155 mm				
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: HR						DATE: 2018-04-30				
DATUM: Geodetic						SAMPLE REVIEW: DX						REF. NO.: 17-2099GE				
BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 5				
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST				Natural Moisture Content			UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)	
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SHEAR STRENGTH (kPa)				Plastic Limit w _p	w	Liquid Limit w _L			
							SPT Cone blows/0.3m 20 40 60 80									
							● Unconfined X Field Vane & Sensitivity ▲ Quick Triaxial ⓧ Penetrometer + Lab Vane				WATER CONTENT (%)					
295.0	TOPSOIL: (230 mm)															
294.7																
0.2	FILL: sand and silt to silty sand, trace clay, trace gravel, containing red brick fragments, brown, moist, compact		1	SS	16											
294.4																
0.6	SILTY SAND TO SAND: trace to some gravel, containing cobbles and boulders, brown, moist, compact to very dense		2	SS	29											
1	---		3	SS	67											
	auger grinding															
2	---															
	auger grinding															
3	---		4	SS	64											
	auger grinding															
3	---		5	SS	50 / 50 mm											
	auger grinding															
291.1																
3.9	SILTY FINE SAND: pockets of sandy silt, containing cobbles and boulders, brown, moist, very dense															
4	---		6	SS	50 / 100 mm											
	auger grinding															
5																
289.5																
5.5	SAND AND SILT TO SILTY SAND: trace clay, trace gravel, containing cobbles and boulders, brown, moist, very dense															
6	---		7	SS	50 / 130 mm											
	auger grinding															
	auger grinding															
288.0																
6.9	SAND: some gravel, trace to some silt, containing cobbles and boulders, brown, moist, very dense															
7																
287.2			8	SS	50 / 100 mm											
7.7	END OF BOREHOLE															
	Note: 1) Borehole caved at a depth of 4.1 m below ground surface (mBGS) upon completion of drilling.															

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, X 3: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA										
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 155 mm				
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: RR						DATE: 2018-04-26				
DATUM: Geodetic						SAMPLE REVIEW: DX						REF. NO.: 17-2099GE				
BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 6				
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST				Natural Moisture Content				UNIT WT (kN/m ³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		ELEVATION	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				
296.3	0.0	TOPSOIL: (330 mm)														
295.9	0.3	REWORKED FINE SAND AND SILT TO SILTY FINE SAND: trace organics, trace rootlets, pockets of sandy silt, brown, moist, very loose	1	SS	3		296									
295.7	0.6	REWORKED SAND AND SILT TO SANDY SILT: trace to some clay, trace gravel, trace organics, trace rootlets, dark brown to brown, moist, loose	2A	SS	4											
295.4	0.9	SAND AND SILT: trace clay, trace gravel, containing cobbles and boulders, brown, moist, loose	2B	SS	35											
295.0	1.2	SAND: trace to some gravel, layers/zones of sandy silt, containing cobbles and boulders, brown, moist, dense														
294.2	2.1	SILTY SAND: trace to some gravel, layers/zones of sandy silt, seams of silt, layers of sand, containing cobbles and boulders, brown, moist, very dense	4	SS	61		294									
		--- auger grinding														
292.2	4.0	SAND: some gravel, trace to some silt, brown, moist, very dense														
		--- auger grinding	6	SS	50 / 130 mm											
290.8	5.5	SAND AND SILT TO SILTY SAND: trace gravel, containing cobbles and boulders, brown, moist, very dense					291									
289.9	6.4	END OF BOREHOLE	7	SS	50 / 100 mm		290									
		Note: 1) Borehole was open and dry upon completion of drilling.														

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

 +³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments

DRILLING DATA

CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI

METHOD: Continuous Flight Auger - Auto Hammer

DIAMETER: 155 mm

PROJECT LOCATION: County Road 27, Barrie, Ontario

FIELD ENGINEER: RR

DATE: 2018-04-26

DATUM: Geodetic

SAMPLE REVIEW: DX

REF. NO.: 17-2099GE

BH LOCATION: See Borehole Location Plan

CHECKED: DL

ENCL. NO.: 7

SOIL PROFILE			SAMPLES		GROUND WATER	DYNAMIC PENETRATION TEST				Plastic Limit Natural Moisture Content Liquid Limit			UNIT WT (kN/m ³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE		20	40	60	80	W _p	W	W _L		
298.6														
298.3	TOPSOIL: (245 mm)													
0.2	REWORKED SAND AND SILT: trace clay, trace gravel, trace organics, trace rootlets, dark brown to brown, moist to wet, very loose to compact		1	SS	2									
297.7			2A	SS										
0.8	SAND AND SILT TO SILTY SAND: trace to some clay, trace gravel, organic stain, containing cobbles and boulders, brown, moist, compact		2B	SS	11									
			3	SS	11									
296.5														
2.1	SILTY SAND: trace gravel, layers/zones of sand and silt, containing cobbles and boulders, brown, moist, very dense		4	SS	67									
	--- auger grinding		5	SS	82									
294.5														
4.0	CLAYEY SILT: some sand to sandy, trace gravel, zones/layers of silty sand, containing cobbles and boulders, brown, moist, hard		6	SS	49									
	--- auger grinding													
293.0														
5.6	SAND TO SILTY SAND: trace to some gravel, containing cobbles and boulders, brown, moist, very dense		7	SS	50 / 130 mm									
	--- auger grinding													
290.9														
7.7	END OF BOREHOLE Note: 1) Borehole was open and dry upon completion of drilling.		8	SS	50 / 80 mm									

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA											
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 205 mm					
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: RR						DATE: 2018-04-25					
DATUM: Geodetic						SAMPLE REVIEW: DX						REF. NO.: 17-2099GE					
BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 8					
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST				Natural Moisture Content				UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)	
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SHEAR STRENGTH (kPa)				Plastic Limit w _p	Natural Moisture Content w	Liquid Limit w _L	WATER CONTENT (%)			
301.4						○ SPT	≥ Cone	blows/0.3m									
0.0	TOPSOIL: (360 mm)					20	40	60	80								
301.0			1	SS	5												
0.4	REWORKED SANDY SILT TO SAND AND SILT: trace to some clay, trace gravel, trace organics, trace rootlets, layers of clayey silt, dark brown to brown, moist, loose		2	SS	11												
300.8																	
0.6	CLAYEY SILT: some sand, trace organics, brown, moist, stiff																
300.2	SAND AND SILT: trace clay, trace gravel, pockets of organics, brown, moist, loose		3	SS	6												
1.2																	
299.3																	
2.1	SILTY SAND: trace clay, trace gravel, layers of sand, containing cobbles and boulders, brown, moist, dense		4	SS	40												
298.5																	
2.9	FINE SAND AND SILT TO SILTY FINE SAND: trace gravel, layers/zones of silt, brown, moist, dense to very dense		5	SS	34												
	--- auger grinding																
	---layers of clayey silt		6	SS	85 / 260 mm												
295.8	SILTY SAND: trace to some gravel, layers of sand and silt, containing cobbles and boulders, brown, moist, very dense		7	SS	50 / 150 mm												
5.6																	
	--- auger grinding																
294.4	SAND: some silt, some gravel, containing cobbles and boulders, brown, moist, very dense		8	SS	50 / 130 mm												
6.9																	
292.9	FINE SAND: trace to some silt, trace gravel, brown, moist, very dense		9	SS	50 / 80 mm												
8.5																	

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Continued Next Page

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3 , × 3 : Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments							DRILLING DATA																
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI							METHOD: Continuous Flight Auger - Auto Hammer							DIAMETER: 205 mm									
PROJECT LOCATION: County Road 27, Barrie, Ontario							FIELD ENGINEER: RR							DATE: 2018-04-25									
DATUM: Geodetic							SAMPLE REVIEW: DX							REF. NO.: 17-2099GE									
BH LOCATION: See Borehole Location Plan							CHECKED: DL							ENCL. NO.: 8									
SOIL PROFILE			SAMPLES			DYNAMIC PENETRATION TEST								Natural Moisture Content				REMARKS AND GRAIN SIZE DISTRIBUTION (%)					
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m	GROUND WATER	ELEVATION	SPT				Cone		blows/0.3m		Plastic Limit w _p	Natural Moisture Content w	Liquid Limit w _L	UNIT WT (kN/m ³)	GR	SA	SI	CL
								20	40	60	80	20	40	60	80								
								SHEAR STRENGTH (kPa)								WATER CONTENT (%)							
								● Unconfined ✕ Field Vane & Sensitivity								w _p w w _L							
								▲ Quick Triaxial ☒ Penetrometer + Lab Vane															
								20 40 60 80								10 20 30 40							
11	FINE SAND: trace to some silt, trace gravel, brown, moist, very dense(Continued)		10	SS	50 / 80 mm		291																
289.9																							
12	SAND AND SILT TO SILTY SAND: trace gravel, containing cobbles and boulders, brown, moist, very dense		11	SS	50 / 80 mm		290																
289																							
13	--- auger grinding		12	SS	50 / 50 mm		288																
287																							
14			13	SS	60 / 80 mm		286.6/May 11																
286.1																							
15.3	END OF BOREHOLE																						
Note: 1) 51 mm dia. monitoring well was installed in borehole upon completion of drilling.																							
Water Level Reading Date W. L. Depth (mBGS) May 11, 2018 14.83																							

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, ✕ 3: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments				DRILLING DATA																
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI				METHOD: Continuous Flight Auger - Auto Hammer				DIAMETER: 155 mm												
PROJECT LOCATION: County Road 27, Barrie, Ontario				FIELD ENGINEER: RR				DATE: 2018-04-23												
DATUM: Geodetic				SAMPLE REVIEW: DX				REF. NO.: 17-2099GE												
BH LOCATION: See Borehole Location Plan				CHECKED: DL				ENCL. NO.: 9												
SOIL PROFILE			SAMPLES			DYNAMIC PENETRATION TEST				REMARKS AND GRAIN SIZE DISTRIBUTION (%)										
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m	GROUND WATER	ELEVATION	DYNAMIC PENETRATION TEST				WATER CONTENT (%)				UNIT WT (kN/m³)	GR	SA	SI	CL
								SPT 20	Cone 40	blows/0.3m 60	80	Plastic Limit w _p	Natural Moisture Content w	Liquid Limit w _L						
301.8 0.0	TOPSOIL: (330 mm)																			
301.5 0.3	REWORKED SILTY SAND: trace gravel, trace organics, trace rootlets, pockets of organic silt, brown, moist to wet, compact		1	SS	11															
301.2 0.6	SILTY SAND: trace gravel, organic stain, dark brown to brown, wet, loose to compact		2	SS	6															
			3	SS	4															
299.4 2.4	SAND AND SILT TO SILTY SAND: trace clay, trace gravel, brown, moist to wet, compact		4A	SS																
298.9 2.9	SAND: trace to some silt, trace to some gravel, containing cobbles and boulders, brown, moist, compact to very dense		4B	SS	29															
			5	SS	43															
	--- auger grinding		6	SS	97 / 260 mm															
	---zones of silty sand		7	SS	24															
294.0 7.9	END OF BOREHOLE		8	SS	50 / 80 mm															
Notes: 1) Borehole was dry upon completion of drilling. 2) Borehole caved at depth of 7.3 m below ground surface (mBGS) upon completion of drilling.																				

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA												
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 155 mm						
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: RR						DATE: 2018-04-23						
DATUM: Geodetic						SAMPLE REVIEW: DX						REF. NO.: 17-2099GE						
BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 10						
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST								REMARKS AND GRAIN SIZE DISTRIBUTION (%)			
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SPT				Cone					Plastic Limit w _p	Natural Moisture Content w	Liquid Limit w _L
							blows/0.3m				blows/0.3m							
						SHEAR STRENGTH (kPa)								WATER CONTENT (%)				
						● Unconfined ✕ Field Vane & Sensitivity												
						▲ Quick Triaxial ☒ Penetrometer + Lab Vane												
						20 40 60 80								10 20 30 40				

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, ✕ 3: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments					DRILLING DATA										
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI					METHOD: Continuous Flight Auger - Auto Hammer					DIAMETER: 155 mm					
PROJECT LOCATION: County Road 27, Barrie, Ontario					FIELD ENGINEER: RR					DATE: 2018-04-23					
DATUM: Geodetic					SAMPLE REVIEW: DX					REF. NO.: 17-2099GE					
BH LOCATION: See Borehole Location Plan					CHECKED: DL					ENCL. NO.: 11					
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST				Natural Moisture Content			UNIT WT (kN/m ³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SHEAR STRENGTH (kPa)				Plastic Limit w _p	Natural Moisture Content w	Liquid Limit w _L		
							○ SPT 20	⩾ Cone 40	blows/0.3m 60	80					
							● Unconfined ✕ Field Vane & Sensitivity ▲ Quick Triaxial ⦿ Penetrometer + Lab Vane				WATER CONTENT (%)			GR SA SI CL	
300.8 0.0	TOPSOIL: (310 mm)														
300.5 0.3	REWORKED SAND AND SILT TO SILTY SAND: trace organics, trace rootlets, dark brown to brown, moist to wet, very loose		1	SS	3										
300.2 0.6	SAND AND SILT TO SILTY SAND: trace clay, trace gravel, organic stain, dark brown to brown, moist to wet, very loose to compact		2	SS	2										
299.3 1.5	SAND AND SILT TO SILTY SAND: trace clay, trace gravel, pockets of sand, containing cobbles and boulders, brown, moist, compact		3A	SS	11										
298.8 2.1	SAND: some silt, trace gravel, layers of sandy silt, containing cobbles and boulders, brown, moist, very dense		4	SS	53										
297.9 2.9	SILTY SAND: trace gravel, layers of sandy silt, containing cobbles and boulders, brown, moist, very dense		5	SS	80 / 280 mm										
295.5 5.4	SILTY FINE SAND: trace gravel, layers of sandy silt, containing cobbles and boulders, brown, moist, very dense														
294.5 6.4	END OF BOREHOLE		7	SS	50 / 100 mm										
Notes: 1) Borehole was dry upon completion of drilling. 2) Borehole caved at a depth of 5.9 m below ground surface (mBGS) upon completion of drilling.															

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

 +³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments

DRILLING DATA

CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI

METHOD: Continuous Flight Auger - Auto Hammer

DIAMETER: 155 mm

PROJECT LOCATION: County Road 27, Barrie, Ontario

FIELD ENGINEER: RR

DATE: 2018-04-23

DATUM: Geodetic

SAMPLE REVIEW: DX

REF. NO.: 17-2099GE

BH LOCATION: See Borehole Location Plan

CHECKED: DL

ENCL. NO.: 12

SOIL PROFILE			SAMPLES		GROUND WATER	DYNAMIC PENETRATION TEST				Plastic Limit			UNIT WT (kN/m ³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE		20	40	60	80	W _p	W	W _L		
298.9														
0.0	TOPSOIL: (310 mm)													
298.6			1	SS	2									
0.3	REWORKED SAND AND SILT:													
298.3	trace clay, trace organics, trace rootlets, brown, moist, very loose													
0.6	SAND AND SILT: trace to some clay, trace gravel, containing cobbles and boulders, brown, moist, loose		2A	SS	9									
297.8														
297.7			2B	SS										
1.2	SAND: trace to some silt, trace gravel, layers of sandy silt, brown, moist, loose		3	SS	51									
	SAND AND SILT TO SILTY SAND: trace clay, trace gravel, layers of sandy silt, containing cobbles and boulders, brown, moist, very dense													
2			4	SS	69									
3														
5			5	SS	82 / 280 mm									
4														
294.2	--- auger grinding		6A	SS	50 / 80 mm									
4.7	SAND: trace to some silt, trace gravel, brown, moist, very dense		6B	SS										
5														
6														
292.5			7	SS	50 / 130 mm									
6.4	END OF BOREHOLE													
	Note: 1) Borehole caved at a depth of 5.2 m below ground surface (mBGS) upon completion of drilling.													

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

 +³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA													
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 155 mm							
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: RR						DATE: 2018-04-23							
DATUM: Geodetic						SAMPLE REVIEW: DX						REF. NO.: 17-2099GE							
BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 13							
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST				Natural Moisture Content				UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)			
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SHEAR STRENGTH (kPa)				WATER CONTENT (%)								
							SPT 20 40 60 80				Cone blows/0.3m 20 40 60 80					Plastic Limit w _p Natural Moisture Content w Liquid Limit w _L			
						● Unconfined X Field Vane & Sensitivity													
						▲ Quick Triaxial ⊠ Penetrometer + Lab Vane													
295.3	0.0	TOPSOIL: (290 mm)																	
295.0	0.3	REWORKED SANDY SILT TO SAND AND SILT: trace clay, trace gravel, trace organics, trace rootlets, dark brown to brown, moist, loose	1	SS	4														
294.7	0.6		2A	SS	4														
294.2	0.9	SAND AND SILT: trace clay, trace gravel, organic stain, brown, moist to wet, loose	2B	SS															
294.1	1.2		3	SS	47														
		SAND AND SILT: trace clay, trace gravel, containing cobbles and boulders, brown, moist, loose																	
		SAND: some gravel, some silt, containing cobbles and boulders, brown, moist, dense																	
		SILTY SAND: trace gravel, layers/zones of sand and silt, brown, moist, very dense	4	SS	72														
		SILTY FINE SAND: seams/pockets of silt, brown, moist, very dense	5	SS	60														

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

 +³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments

DRILLING DATA

CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI

METHOD: Continuous Flight Auger - Auto Hammer

DIAMETER: 155 mm

PROJECT LOCATION: County Road 27, Barrie, Ontario

FIELD ENGINEER: RR

DATE: 2018-04-24

DATUM: Geodetic

SAMPLE REVIEW: DX

REF. NO.: 17-2099GE

BH LOCATION: See Borehole Location Plan

CHECKED: DL

ENCL. NO.: 14

SOIL PROFILE			SAMPLES		GROUND WATER	DYNAMIC PENETRATION TEST				Plastic Limit			UNIT WT (kN/m ³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE		SPT	Cone	blows/0.3m		W _p	Natural Moisture Content W	Liquid Limit W _L		
294.6						20	40	60	80					
294.5	TOPSOIL: (170 mm)													
0.2	REWORKED SANDY SILT: trace to some clay, trace gravel, trace organics, trace rootlets, dark brown to brown, moist, very loose		1	SS	3									
294.0	SAND AND SILT TO SANDY SILT: some clay, trace gravel, sand pockets, containing cobbles and boulders, brown, moist, compact		2	SS	11									1 39 42 18
0.6			3	SS	17									
292.6	SAND AND SILT TO SILTY SAND: trace gravel, containing cobbles and boulders, brown, moist, very dense		4	SS	64									
2.1														
291.7	FINE SAND: trace to some silt, trace gravel, layers of sandy silt, containing cobbles and boulders, brown, moist, very dense --- auger grinding		5	SS	59									
2.9														
290.6	SILTY FINE SAND: trace gravel, layers of sandy silt, containing cobbles and boulders, brown, moist, very dense		6A	SS	69									
4.0														
289.8	SAND AND SILT: trace clay, trace gravel, containing cobbles and boulders, brown, moist, very dense		6B	SS										
4.9														
289.1	SILTY SAND: trace gravel, layers of sandy silt, containing cobbles and boulders, brown, moist, very dense													
5.6														
288.4	END OF BOREHOLE Note: 1) Borehole caved at a depth of 5.4 m below ground surface (mBGS) upon completion of drilling.		7	SS	50 / 140 mm									
6.2														

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

 +³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments							DRILLING DATA																
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI							METHOD: Continuous Flight Auger - Auto Hammer							DIAMETER: 155 mm									
PROJECT LOCATION: County Road 27, Barrie, Ontario							FIELD ENGINEER: RR							DATE: 2018-04-24									
DATUM: Geodetic							SAMPLE REVIEW: DX							REF. NO.: 17-2099GE									
BH LOCATION: See Borehole Location Plan							CHECKED: DL							ENCL. NO.: 15									
SOIL PROFILE			SAMPLES			DYNAMIC PENETRATION TEST												REMARKS AND GRAIN SIZE DISTRIBUTION (%)					
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m	GROUND WATER	ELEVATION	SPT 20 40 60 80				Cone blows/0.3m 20 40 60 80				Plastic Limit W _p	Natural Moisture Content W	Liquid Limit W _L	UNIT WT (kN/m ³)	GR	SA	SI	CL
293.3 0.0	TOPSOIL: (340 mm)																						
293.0 0.3	REWORKED SANDY SILT TO SAND AND SILT: trace to some clay, trace gravel, trace organics, trace rootlets, dark brown, moist, very loose SAND AND SILT: trace to some clay, trace gravel, trace rootlets, pockets of organics, organic stain, brown, wet, loose SAND AND SILT TO SILTY SAND: trace to some clay, trace gravel, pockets of sand, containing cobbles and boulders, moist to wet, compact to very dense		1	SS	3		293									o							
292.7 0.6			2	SS	5											o							
292.1 1.2			3	SS	14											o							
				4	SS	14										o							
			5	SS	12		290									o							
			6	SS	70		289																

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA																
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 155 mm										
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: HR						DATE: 2018-04-30										
DATUM: Geodetic						SAMPLE REVIEW: DX						REF. NO.: 17-2099GE										
BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 16										
SOIL PROFILE			SAMPLES			DYNAMIC PENETRATION TEST								Natural Moisture Content				REMARKS AND GRAIN SIZE DISTRIBUTION (%)				
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m	ELEVATION	SPT				Cone				Plastic Limit		Liquid Limit		GR	SA	SI	CL
291.3	TOPSOIL: (330 mm)						20	40	60	80	20	40	60	80	10	20	30	40				
291.0	REWORKED SAND AND SILT: trace clay, trace gravel, trace organics, trace rootlets, dark brown, wet, very loose		1	SS	2	291.0										20						
290.7	SAND AND SILT: trace clay, trace gravel, organic stain, brown, wet, loose		2	SS	9	290.7										20						
290.1	SAND AND SILT TO SILTY SAND: trace to some clay, trace gravel, layers of silty sand, pockets of sand, brown, moist to wet, loose to very dense		3	SS	7	290.1										20						
289.8						289.8/May 11																
289.5			4	SS	9	289.5										20						
289.0																						
288.5			5	SS	11	288.5										20						
288.0																						
287.5																						
287.0			6	SS	10	287.0										20						
286.5																						
286.0																						
285.5																						
285.0	END OF BOREHOLE		7	SS	50 / 100	285.0										20						
284.5	Notes: 1) Water was encountered at a depth of 2.1 m below ground surface (mBGS) during drilling. 2) Borehole caved at a depth of 5.5 mBGS upon completion of drilling. 3) 51 mm dia. monitoring well was installed upon completion of drilling. Water Level Reading Date W. L. Depth (mBGS) May 11, 2018 1.51																					

PROJECT: Geotechnical Investigation for Proposed Residential Developments

DRILLING DATA

CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI

METHOD: Continuous Flight Auger - Auto Hammer

DIAMETER: 155 mm

PROJECT LOCATION: County Road 27, Barrie, Ontario

FIELD ENGINEER: HR

DATE: 2018-04-30

DATUM: Geodetic

SAMPLE REVIEW: DX

REF. NO.: 17-2099GE

BH LOCATION: See Borehole Location Plan

CHECKED: DL

ENCL. NO.: 17

SOIL PROFILE			SAMPLES		GROUND WATER	DYNAMIC PENETRATION TEST				Plastic Limit			Natural Moisture Content	Liquid Limit	UNIT WT (kN/m ³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
ELEV. DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE		SPT	Cone	blows/0.3m		W _p	W	W _L				
299.0						20	40	60	80							
298.9	PAVED SHOULDER ASPHALT: (60 mm)		1	AS												
	GRANULAR BASE/SUBBASE: (780 mm)															
298.1			2	SS	15											
297.7	FILL: gravelly sand, trace silt, containing rock fragments, brown, moist, compact															
297.2	FILL: organic sandy silt to organic silt, trace clay, trace gravel, dark brown, wet, loose		3A	SS	6											
296.8	FILL: sandy silt to sand and silt, trace to some clay, trace organics, brown, wet, loose		3B	SS												
296.1	SAND AND SILT: trace clay, trace gravel, brown to grey, wet, loose to compact		4	SS	7											
295.5			5	SS	11											
294.5			6	SS	29											
293.5			7	SS	11											
292.4	END OF BOREHOLE															
Notes: 1) Water was encountered at a depth of 4.6 m below ground surface (mBGS) during drilling. 2) Water was at a depth of 5.5 mBGS upon completion of drilling. 3) Borehole caved at a depth of 6.0 mBGS upon completion of drilling.																

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

 +³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments							DRILLING DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI							METHOD: Continuous Split Spoon							DIAMETER: 51 mm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PROJECT LOCATION: County Road 27, Barrie, Ontario							FIELD ENGINEER: HR							DATE: 2018-05-02																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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BH LOCATION: See Borehole Location Plan							CHECKED: DL							ENCL. NO.: 18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST								Natural Moisture Content				UNIT WT (kN/m ³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SHEAR STRENGTH (kPa)				Plastic Limit w _p	Natural Moisture Content w	Liquid Limit w _L	WATER CONTENT (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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298.4	TOPSOIL: (320 mm)						20	40	60	80																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

 +³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments							DRILLING DATA															
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI							METHOD: Continuous Split Spoon							DIAMETER: 51 mm								
PROJECT LOCATION: County Road 27, Barrie, Ontario							FIELD ENGINEER: RR							DATE: 2018-05-01								
DATUM: Geodetic							SAMPLE REVIEW: DX							REF. NO.: 17-2099GE								
BH LOCATION: See Borehole Location Plan							CHECKED: DL							ENCL. NO.: 19								
SOIL PROFILE			SAMPLES			DYNAMIC PENETRATION TEST										REMARKS AND GRAIN SIZE DISTRIBUTION (%)						
ELEV. DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m	GROUND WATER	ELEVATION	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				UNIT WT (kN/m³)	GR	SA	SI	CL		
								○ SPT	△ Cone	blows/0.3m		W _p	W	W _L								
296.6	TOPSOIL: (300 mm)							20	40	60	80	10	20	30	40							
296.3	REWORKED SAND AND SILT: trace clay, trace gravel, brown, moist to wet, very loose		1	SS	2		296															
295.8	SAND AND SILT: trace clay, trace gravel, trace rootlets, layers/seams /pockets of sand, containing cobbles and boulders, brown, moist to wet, loose to compact		2	SS	6		295.4/May 11															
295																						
294																						
293																						
292																						
291																						
290.7																						
291.4	NO SAMPLE RECOVERY: likely silty sand		8	NR	19		291															
5.9	END OF BOREHOLE:																					
Notes: 1) Water was encountered at a depth of 2.3 m below ground surface (mBGS) during drilling. 2) Water was at a depth of 3.5 mBGS upon completion of drilling. 3) Borehole caved at a depth of 5.3 mBGS upon completion. 4) 38 mm dia. monitoring was installed in borehole upon completion of drilling. Water Level Reading Date W. L. Depth (mBGS) May 11, 2018 1.20																						

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA											
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 155 mm					
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: RR						DATE: 2018-04-24					
DATUM: Geodetic						SAMPLE REVIEW: DX						REF. NO.: 17-2099GE					
BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 20					
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST				Natural Moisture Content			UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)		
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SHEAR STRENGTH (kPa)				Plastic Limit w _p	w	Liquid Limit w _L				
							○ SPT 20 40 60 80	≥ Cone 20 40 60 80	blows/0.3m								
						● Unconfined X Field Vane & Sensitivity ▲ Quick Triaxial ▣ Penetrometer + Lab Vane				WATER CONTENT (%)			GR SA SI CL				
295.3	TOPSOIL: (290 mm)																
0.0																	
295.0																	
0.3	REWORKED FINE SAND AND SILT: trace organics, trace rootlets, pockets of organics, dark brown to brown, moist, loose		1	SS	4												
294.7																	
0.6																	
294.4	CLAYEY SILT: trace to some sand, trace organics, trace rootlets, zones of silty fine sand, organic stain, dark brown to brown, moist, soft to firm		2A	SS	4												
1.0																	
294.1			2B	SS													
1.2																	
	SAND AND SILT: trace to some clay, trace gravel, brown, moist to wet, loose		3	SS	9												
293.3																	
2.1	SANDY SILT TO SAND AND SILT: trace to some clay, trace gravel, layers of clayey silt, containing cobbles and boulders, brown, moist to wet, loose																
			4	SS	17												
292.4																	
2.9	SAND AND SILT TILL: trace clay, trace gravel, layers of sand and silt, containing cobbles and boulders, brown, moist, compact																
			5	SS	16												
	SAND AND SILT: trace clay, trace gravel, containing cobbles and boulders, brown, moist, compact to very dense																
4																	
	--- auger grinding																
6			6	SS	87 / 260 mm												
289.8																	
5.6	SILTY SAND: trace gravel, containing cobbles and boulders, brown, moist, very dense																
288.9			7	SS	50 / 150 mm												
6.4	END OF BOREHOLE																
	Note: 1) Borehole caved at a depth of 5.3 m below ground surface (mBGS) upon completion of drilling.																

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

 +³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 155 mm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: RR						DATE: 2018-04-24																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 21																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
SOIL PROFILE			SAMPLES			DYNAMIC PENETRATION TEST												REMARKS AND GRAIN SIZE DISTRIBUTION (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m	GROUND WATER	ELEVATION	SPT				Cone				blows/0.3m				Plastic Limit				Natural Moisture Content				Liquid Limit				UNIT WT (kN/m³)	GR	SA	SI	CL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
								20	40	60	80	20	40	60	80	20	40	60	80	W _p	W	W _L	WATER CONTENT (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
297.3	TOPSOIL: (280 mm)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA											
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 155 mm					
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: RR						DATE: 2018-04-23					
DATUM: Geodetic						SAMPLE REVIEW: DX						REF. NO.: 17-2099GE					
BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 22					
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST				Natural Moisture Content				UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)	
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SHEAR STRENGTH (kPa)				Plastic Limit W _p	Natural Moisture Content W	Liquid Limit W _L	WATER CONTENT (%)			
						○ SPT	≥ Cone	blows/0.3m									
						20	40	60	80								
						● Unconfined	× Field Vane & Sensitivity										
						▲ Quick Triaxial	▣ Penetrometer + Lab Vane										
						20	40	60	80								
302.0	TOPSOIL: (240 mm)																
301.8	REWORKED FINE SAND AND SILT TO SILTY FINE SAND: trace clay, trace gravel, trace organics, trace rootlets, dark brown, wet, very loose			1	SS	2											
301.4																	
300.8	SAND AND SILT: trace clay, trace gravel, trace rootlets, organic stain, dark brown to brown, moist to wet, loose			2	SS	5											
300.8	SAND AND SILT TO SILTY SAND: trace clay, trace gravel, pockets of sand, containing cobbles and boulders, brown, moist, very dense			3	SS	61											
300.8																	
300.8				4	SS	89											
299.1																	
299.1	FINE SAND: trace to some silt, trace gravel, brown, moist, very dense			5A	SS	87 / 280 mm											
298.6	SANDY SILT: trace clay, trace gravel, layers of silt, brown, moist, very dense			5B	SS												
298.0	SAND AND SILT TO SILTY SAND: trace gravel, containing cobbles and boulders, brown, moist, very dense			6	SS	50 / 100 mm											
298.0	--- auger grinding																
296.5	SAND: trace to some silt, trace gravel, brown, moist, very dense			7	SS	50 / 80 mm											
295.1	SAND AND SILT TO SILTY SAND: trace gravel, pockets of sand, containing cobbles and boulders, brown, moist, very dense			8	SS	50 / 50 mm											
293.6	SILTY FINE SAND: brown, moist, very dense			9	SS	50 / 140 mm											
292.7	END OF BOREHOLE																
Notes: 1) Borehole caved at a depth of 7.9 m below ground surface (mBGS)																	

01 - GEOPRO SOIL LOG - GEOPRO 17-2099 BH LOG PROJECT DATA 20180529-DC-DX-GPJ - 2018-05-29 17:04

Continued Next Page

 GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments										DRILLING DATA															
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI										METHOD: Continuous Flight Auger - Auto Hammer										DIAMETER: 155 mm					
PROJECT LOCATION: County Road 27, Barrie, Ontario										FIELD ENGINEER: RR										DATE: 2018-04-23					
DATUM: Geodetic										SAMPLE REVIEW: DX										REF. NO.: 17-2099GE					
BH LOCATION: See Borehole Location Plan										CHECKED: DL										ENCL. NO.: 22					
SOIL PROFILE			SAMPLES			GROUND WATER		DYNAMIC PENETRATION TEST				Plastic Limit				Natural Moisture Content				Liquid Limit				REMARKS AND GRAIN SIZE DISTRIBUTION (%)	
ELEV. DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		ELEVATION	SPT	Cone	blows/0.3m	W _p	W	W _L	UNIT WT (kN/m ³)											
	upon completion of drilling. 2) 51 mm dia. monitoring was installed in borehole upon completion of drilling.																								
	Water Level Reading Date W. L. Depth (mBGS) May 11, 2018 Dry																								

01 - GEOPRO SOIL LOG GEOPRO 17-2099 BH LOG PROJECT DATA 20180529-DC-DX-GPJ 2018-05-29 17:04

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH
NOTES

+³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments				DRILLING DATA																
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI				METHOD: Continuous Flight Auger - Auto Hammer				DIAMETER: 155 mm												
PROJECT LOCATION: County Road 27, Barrie, Ontario				FIELD ENGINEER: HR				DATE: 2018-04-30												
DATUM: Geodetic				SAMPLE REVIEW: DX				REF. NO.: 17-2099GE												
BH LOCATION: See Borehole Location Plan				CHECKED: DL				ENCL. NO.: 23												
SOIL PROFILE			SAMPLES			DYNAMIC PENETRATION TEST				Natural Moisture Content				REMARKS AND GRAIN SIZE DISTRIBUTION (%)						
ELEV. DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m	GROUND WATER	ELEVATION	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				UNIT WT (kN/m³)	GR	SA	SI	CL
305.1	TOPSOIL: (230 mm)						305													
304.9																				
0.2	FINE SAND: trace to some silt, trace gravel, containing cobbles and boulders, brown, moist to wet, loose to dense		1	SS	8															
			2	SS	40															
			3	SS	36															
303.0	SILTY FINE SAND: brown, saturated, loose to compact		4	SS	10		303													
302.2	FINE SAND: trace to some silt, brown, saturated, compact		5	SS	15		302													
301.1	SAND AND SILT: trace to some clay, trace gravel, sand pockets, containing cobbles and boulders, brown, moist to wet, very dense		6	SS	59		301													
							300													
299.5	SAND: some silt, trace gravel, brown, wet, very dense																			
298.9			7	SS	50		299													
6.2	END OF BOREHOLE				100 mm															
Notes: 1) Water encountered at a depth of 0.3 m below ground surface (mBGS) during drilling. 2) Borehole caved at a depth of 0.6 mBGS upon completion of drilling.																				

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments										DRILLING DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST								Natural Moisture Content				UNIT WT (kN/m ³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SPT				Cone				Plastic Limit w _p	Natural Moisture Content w	Liquid Limit w _L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, X 3: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

PROJECT: Geotechnical Investigation for Proposed Residential Developments					DRILLING DATA										
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI					METHOD: Continuous Flight Auger - Auto Hammer					DIAMETER: 155 mm					
PROJECT LOCATION: County Road 27, Barrie, Ontario					FIELD ENGINEER: HR					DATE: 2018-04-24					
DATUM: Geodetic					SAMPLE REVIEW: DX					REF. NO.: 17-2099GE					
BH LOCATION: See Borehole Location Plan					CHECKED: DL					ENCL. NO.: 25					
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST				Natural Moisture Content			UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SHEAR STRENGTH (kPa)				Plastic Limit w _p	w	Liquid Limit w _L		
							○ SPT	≧ Cone	blows/0.3m						
						20	40	60	80						
297.5	TOPSOIL: (280 mm)														
297.2			1	SS	5										
0.3	REWORKED FINE SAND AND SILT TO SILTY FINE SAND: trace organics, trace rootlets, dark brown to brown, moist, loose		2	SS	6										
296.8															
0.6	CLAYEY SILT: some sand to sandy, trace organics, trace rootlets, organic stain, dark brown to brown, moist, firm		3	SS	9										
296.2															
1.2	SAND AND SILT: trace clay, trace gravel, organic stain, brown, wet, loose														
295.4															
2.1	SAND AND SILT TO SILTY SAND: trace clay, trace gravel, sand pockets, containing cobbles and boulders, brown, moist to wet, compact to very dense		4	SS	21										
			5	SS	52										
			6	SS	69										
	---auger grinding														
291.9															
5.6	FINE SAND AND SILT TO SILTY FINE SAND: brown, wet, very dense														
290.9			7	SS	69 / 290 mm										
6.5	END OF BOREHOLE														
Notes: 1) Water encountered at a depth of 4.6 m below ground surface (mBGS) during drilling. 2) Water was at a depth of 5.2 mBGS upon completion of drilling. 3) Borehole caved at 5.8 mBGS upon completion of drilling.															

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

 +³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

[illegible]

PROJECT: Geotechnical Investigation for Proposed Residential Developments						DRILLING DATA													
CLIENT: Di Poce Management Inc. c/o Oksana Vialykh, BBA, AACI						METHOD: Continuous Flight Auger - Auto Hammer						DIAMETER: 155 mm							
PROJECT LOCATION: County Road 27, Barrie, Ontario						FIELD ENGINEER: HR						DATE: 2018-04-30							
DATUM: Geodetic						SAMPLE REVIEW: DX						REF. NO.: 17-2099GE							
BH LOCATION: See Borehole Location Plan						CHECKED: DL						ENCL. NO.: 27							
SOIL PROFILE			SAMPLES			GROUND WATER	DYNAMIC PENETRATION TEST				Natural Moisture Content				UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)			
ELEV DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS/0.3m		SHEAR STRENGTH (kPa)				Plastic Limit w _p	Natural Moisture Content w	Liquid Limit w _L						
							SPT Cone blows/0.3m												
							20 40 60 80												
						● Unconfined ✕ Field Vane & Sensitivity ▲ Quick Triaxial ▣ Penetrometer + Lab Vane				WATER CONTENT (%)									
306.5	0.0	TOPSOIL: (300 mm)																	
306.2	0.3	SAND AND SILT TO SILTY SAND: trace clay, trace gravel, trace to some organics, trace rootlets, layers of peats, dark brown, moist, compact FINE SAND: trace to some silt, trace gravel, brown, wet, compact to very dense	1	SS	14														
305.9	0.6		2	SS	33														
	1		3	SS	18														
	2																		
	3		4	SS	37														
	4																		
	5	5	SS	54															
	6																		
	7																		
301.8	4.7	SILTY SAND TILL TO SAND AND SILT TILL: some clay to clayey, trace gravel, layers of clayey silt, zones/layers of sand and silt, containing cobbles and boulders, brown, moist to wet, dense to very dense	6A	SS															
	5		6B	SS	47														
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GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

 +³, ×³: Numbers refer to Sensitivity

▲ s=3% Strain at Failure

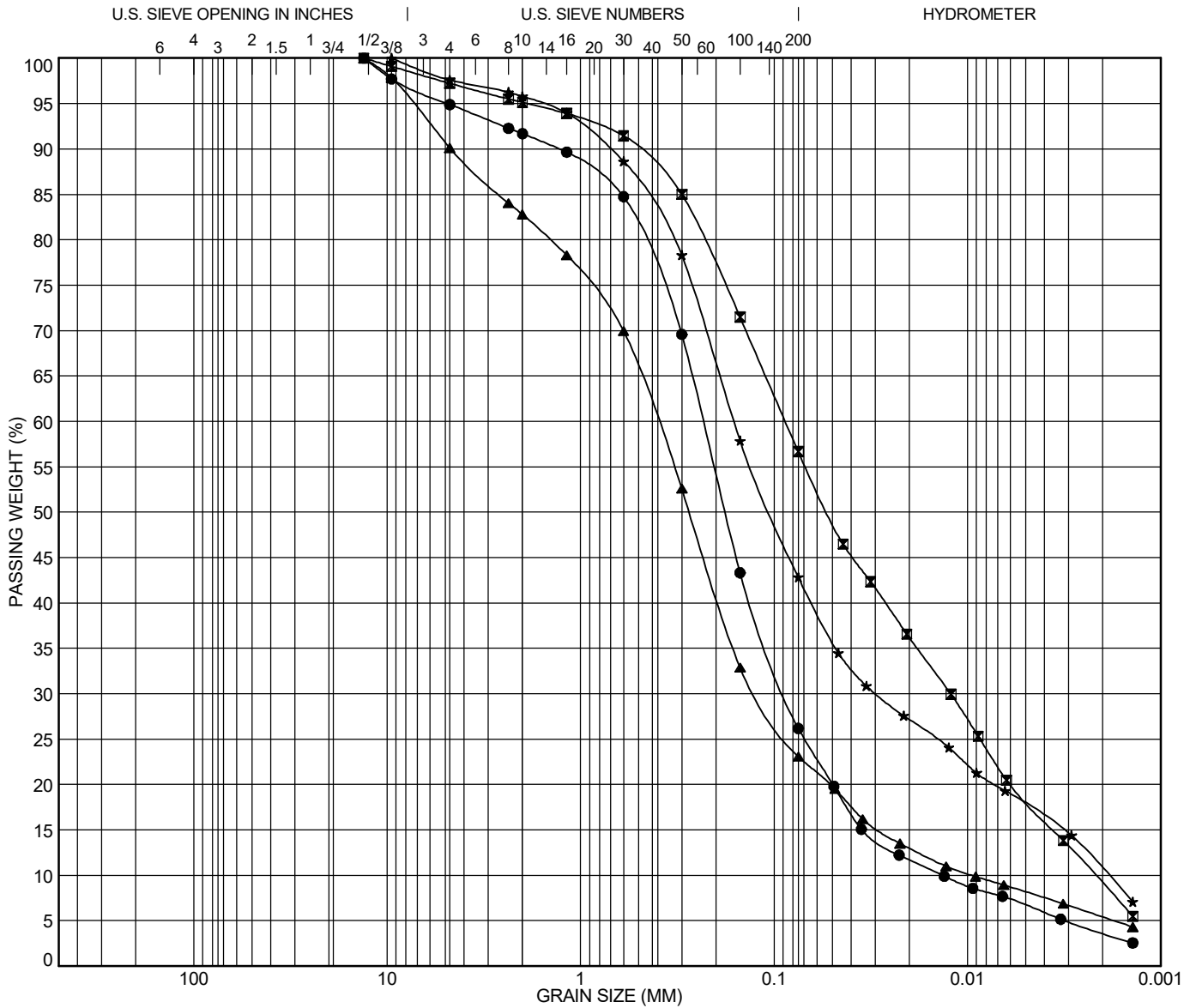
01 - GEOPRO SOIL LOG GEOPRO 17-2099 BH LOG PROJECT DATA 20180529-DC-DX-GPJ 2018-05-29 17:04



GeoPro Consulting Limited

Geotechnical-Hydrogeology-Environmental-Materials-Inspection

FIGURES



COBBLES	GRAVEL		SAND			SILT	CLAY
	coarse	fine	coarse	medium	fine		

Specimen Identification			Classification				LL	PL	PI	Cc	Cu
●	BH02	SS5	3.05							2.43	17.20
■	BH03	SS2	0.61							0.78	40.03
▲	BH04	SS3	1.22							3.91	42.36
★	BH06	SS3	1.22							2.93	86.12
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
●	BH02	SS5	3.05	13.2	0.233	0.088	0.014	5.1	68.7	22.5	3.6
■	BH03	SS2	0.61	13.2	0.088	0.012	0.002	2.8	40.6	47.6	9.1
▲	BH04	SS3	1.22	13.2	0.403	0.122	0.01	9.9	67.0	17.7	5.4
★	BH06	SS3	1.22	9.5	0.161	0.03	0.002	2.4	54.8	32.2	10.7



Unit 57, 40 Vogell Road, Richmond Hill, Ontario L4B 3N6
Tel: 905-237-8336 Fax: 905-248-3699
office@geoproconsulting.ca www.geoproconsulting.ca

GRAIN SIZE DISTRIBUTION

PROJECT: Proposed Phase One Environmental Site Assessment (ESA) and Geotechnical Investigation

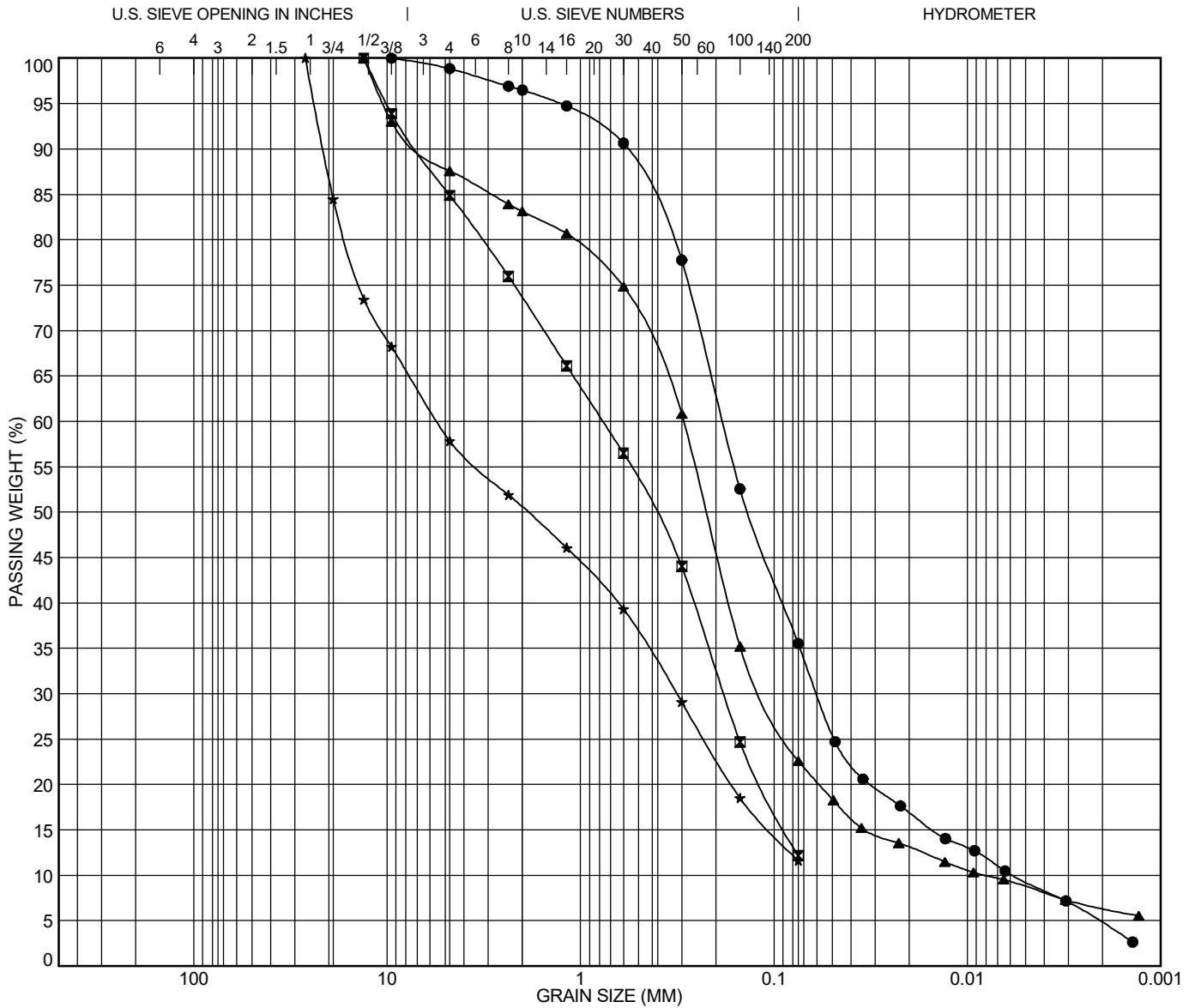
LOCATION: County Road 27, Barrie

PROJECT NO.: 17-2099GE

SAMPLED ON: 2018-04-26

FIGURE NO.: 1

TESTED ON: 2018-05-15



COBBLES	GRAVEL		SAND			SILT	CLAY
	coarse	fine	coarse	medium	fine		

Specimen Identification	Classification						LL	PL	PI	Cc	Cu
● BH07 SS4 2.29										3.38	31.91
▣ BH07 SS8 7.62										0.64	11.54
▲ BH08 SS5 3.05										5.33	36.13
★ BH09 SS5B 3.20										0.29	86.23

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH07 SS4 2.29	9.5	0.184	0.06	0.006	1.2	63.3	30.9	4.7
▣ BH07 SS8 7.62	13.2	0.768	0.181		15.1	72.7	12.2	
▲ BH08 SS5 3.05	13.2	0.293	0.113	0.008	12.4	65.0	16.2	6.4
★ BH09 SS5B 3.20	26.5	5.487	0.319		42.2	46.2	11.6	



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office@geoproconsulting.ca www.geoproconsulting.ca

GRAIN SIZE DISTRIBUTION

PROJECT: Proposed Phase One Environmental Site Assessment (ESA) and Geotechnical Investigation

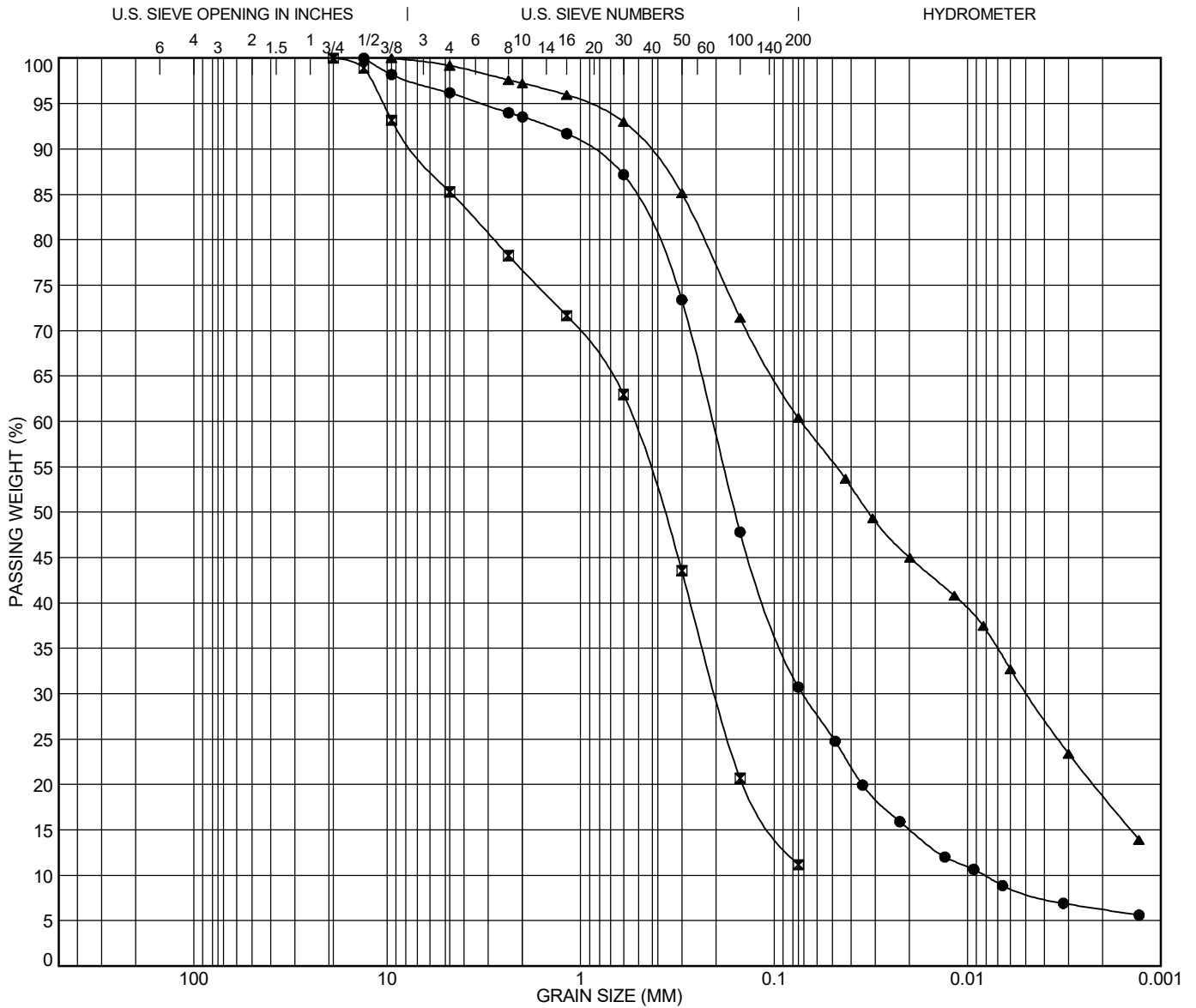
LOCATION: County Road 27, Barrie

PROJECT NO.: 17-2099GE

SAMPLED ON: 2018-04-23

FIGURE NO.: 2

TESTED ON: 2018-05-15



COBBLES	GRAVEL		SAND			SILT	CLAY
	coarse	fine	coarse	medium	fine		

Specimen Identification			Classification				LL	PL	PI	Cc	Cu
●	BH11	SS3	1.22							2.94	25.41
■	BH12	SS3	1.22							1.06	7.84
▲	BH13	SS2	0.61								
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
●	BH11	SS3	1.22	13.2	0.209	0.071	0.008	3.8	65.4	24.5	6.2
■	BH12	SS3	1.22	19	0.54	0.199		14.7	74.1	11.2	
▲	BH13	SS2	0.61	9.5	0.073	0.005		0.8	38.8	41.6	18.8



GeoPro
CONSULTING LIMITED

Unit 57, 40 Vogell Road, Richmond Hill, Ontario L4B 3N6
Tel: 905-237-8336 Fax: 905-248-3699
office@geoproconsulting.ca www.geoproconsulting.ca

GRAIN SIZE DISTRIBUTION

PROJECT: Proposed Phase One Environmental Site Assessment (ESA) and Geotechnical Investigation

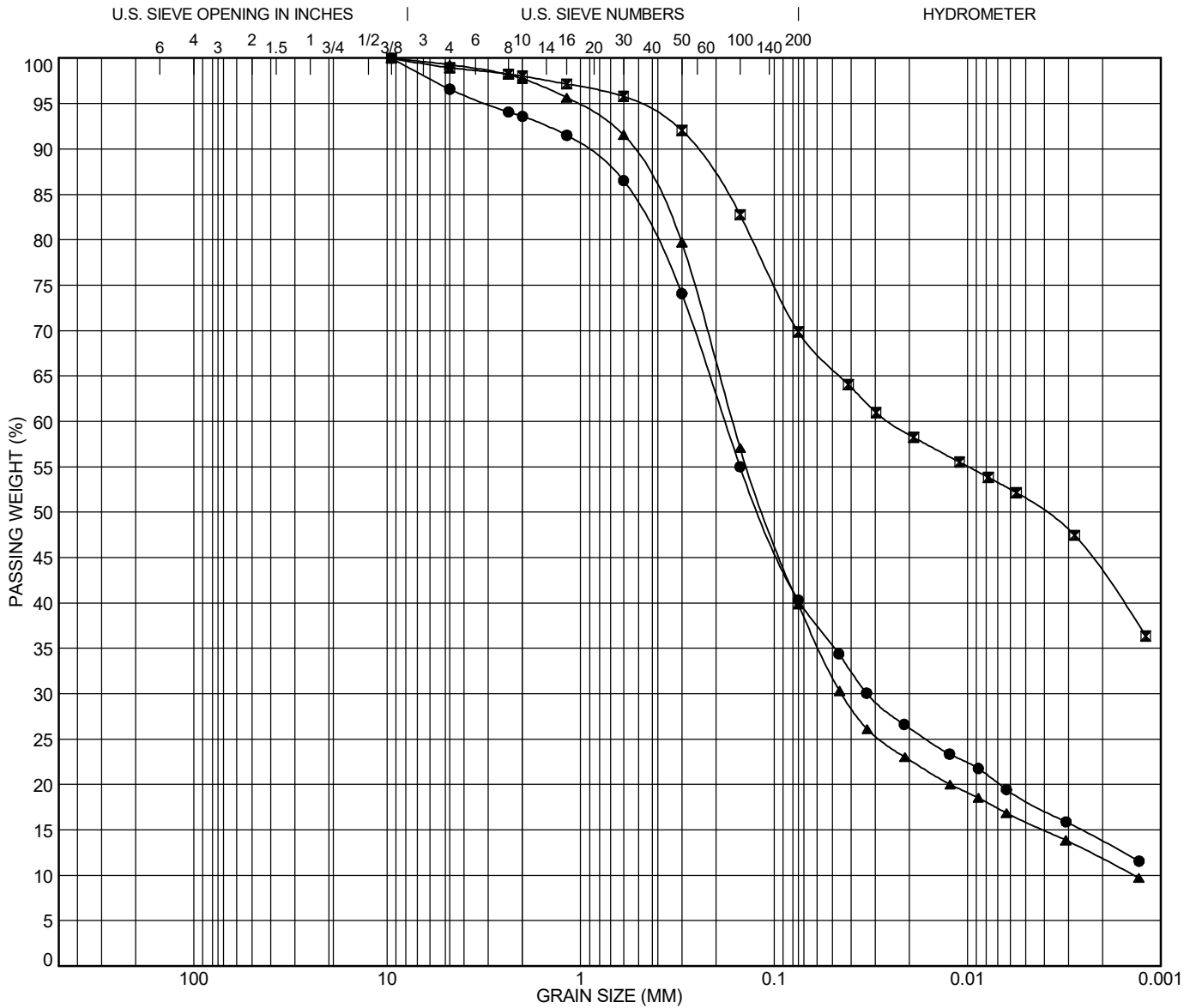
LOCATION: County Road 27, Barrie

PROJECT NO.: 17-2099GE

SAMPLED ON: 2018-04-24

FIGURE NO.: 3

TESTED ON: 2018-05-15



COBBLES	GRAVEL		SAND			SILT	CLAY
	coarse	fine	coarse	medium	fine		

Specimen Identification			Classification				LL	PL	PI	Cc	Cu
●	BH15	SS4	2.29								
■	BH17	SS2	0.76								
▲	BH20	SS4	2.29							8.85	118.54
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
●	BH15	SS4	2.29	9.5	0.18	0.033	3.4	56.3	26.6	13.7	
■	BH17	SS2	0.76	9.5	0.025		1.0	29.1	26.8	43.0	
▲	BH20	SS4	2.29	9.5	0.164	0.045	0.001	59.4	28.1	11.8	



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GRAIN SIZE DISTRIBUTION

PROJECT: Proposed Phase One Environmental Site Assessment (ESA) and Geotechnical Investigation

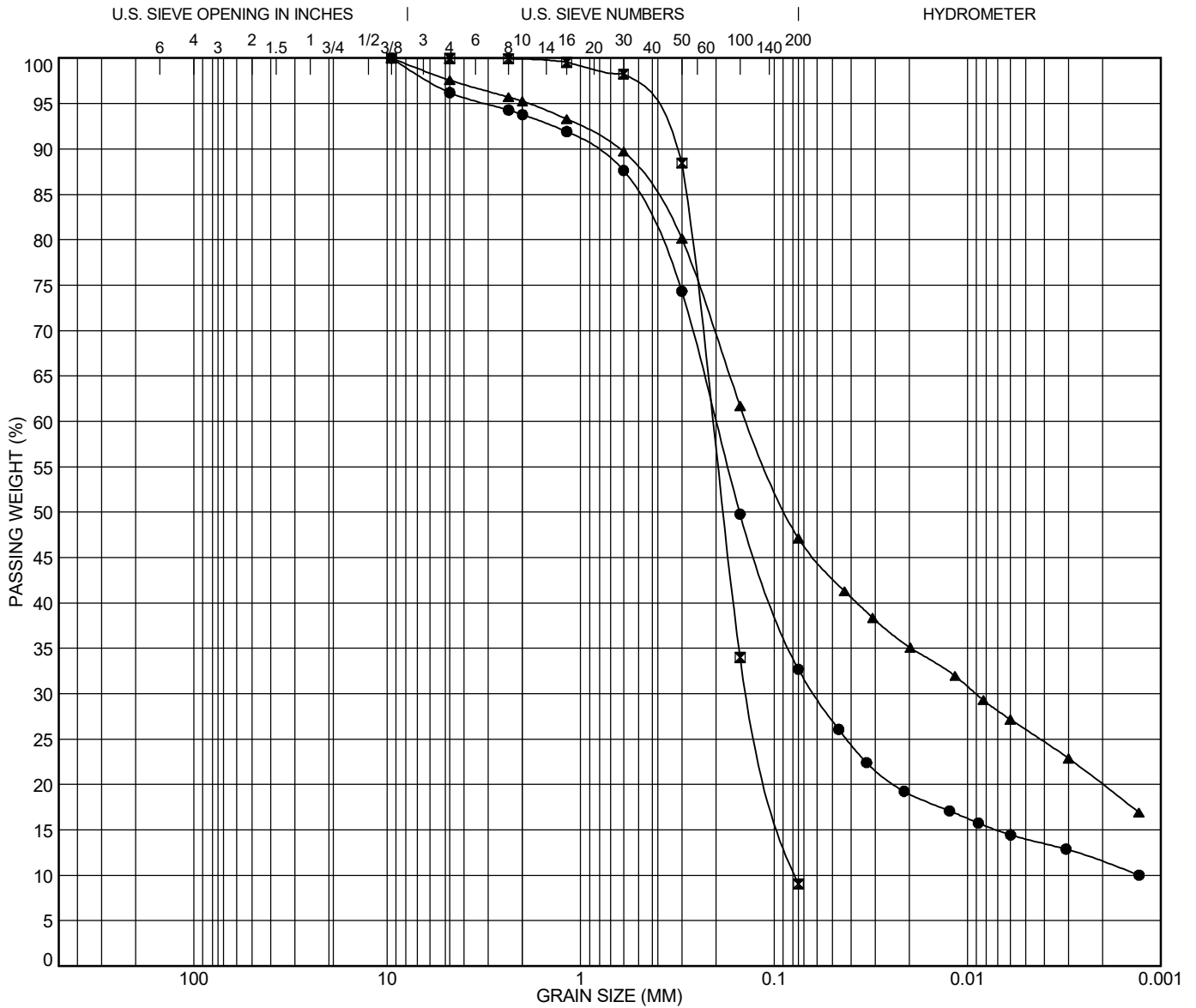
LOCATION: County Road 27, Barrie

PROJECT NO.: 17-2099GE

SAMPLED ON: 2018-04-24

FIGURE NO.: 4

TESTED ON: 2018-05-15



COBBLES	GRAVEL		SAND			SILT	CLAY
	coarse	fine	coarse	medium	fine		

Specimen Identification				Classification				LL	PL	PI	Cc	Cu
●	BH23	SS6	4.57									
■	BH25	SS3	1.22								1.12	2.71
▲	BH26	SS6B	4.70									
Specimen Identification				D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
●	BH23	SS6	4.57	9.5	0.2	0.062		3.8	63.5	21.3	11.4	
■	BH25	SS3	1.22	9.5	0.209	0.134	0.077	0.0	90.9	9.0		
▲	BH26	SS6B	4.70	9.5	0.138	0.009		2.4	50.5	27.2	20.0	



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Tel: 905-237-8336 Fax: 905-248-3699
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GRAIN SIZE DISTRIBUTION

PROJECT: Proposed Phase One Environmental Site Assessment (ESA) and Geotechnical Investigation

LOCATION: County Road 27, Barrie

PROJECT NO.: 17-2099GE

SAMPLED ON: 2018-04-30

FIGURE NO.: 5

TESTED ON: 2018-05-15



GeoPro Consulting Limited

Geotechnical-Hydrogeology-Environmental-Materials-Inspection

APPENDIX C



DATABASE REPORT

Project Property: 17-2099
County Rd 27 And Salem Rd
Barrie ON

Project No:

Report Type: Quote - Custom-Build Your Own Report

Order No: 20180329061

Requested by: GeoPro Consulting Limited

Date Completed: April 4, 2018

**Environmental Risk
Information Services**
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com

www.erisinfo.com

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Executive Summary

Property Information:

Project Property: 17-2099
County Rd 27 And Salem Rd Barrie ON

Project No:

Order Information:

Order No: 20180329061
Date Requested: March 29, 2018
Requested by: GeoPro Consulting Limited
Report Type: Quote - Custom-Build Your Own Report

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	1	1
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	4	4
CA	Certificates of Approval	Y	0	3	3
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	1	1
ECA	Environmental Compliance Approval	Y	0	2	2
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	1	1
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EXP	List of TSSA Expired Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	13	13
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	1	1
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	4	4
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	1	1
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	1	1
WWIS	Water Well Information System	Y	4	11	15
Total:			4	44	48

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
<u>1</u>	WWIS		lot 1 con 11 ON	-/0.0	-1.02	<u>17</u>
<u>1</u>	WWIS		lot 1 con 11 ON	-/0.0	-1.02	<u>20</u>
<u>2</u>	WWIS		lot 1 con 11 Innisfil ON	-/0.0	13.98	<u>23</u>
<u>3</u>	WWIS		lot 1 con 11 ON	-/0.0	7.25	<u>25</u>

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
4	WWIS		lot 1 con 11 ON	SSW/50.3	10.95	28
5	WWIS		lot 1 con 11 ON	S/52.6	8.52	30
6	WDS	MTO HOLLY PIT LANDFILL SITE	INNISFIL ON	SE/74.1	14.95	33
6	WDSH		PT 1 S1/2 11 INNISFIL ON	SE/74.1	14.95	34
7	ANDR	Innisfil Con 11 Dump	Stroud ON L0L 2M0	SE/89.2	14.98	34
8	CA	BARRIE DEVELOPMENT CORPORATION	SELKIRK CRES/LOUGHEED RD. BARRIE CITY ON	NNW/91.2	-5.97	35
8	CA	BARRIE DEVELOPMENT CORPORATION	SELKIRK CRES/LOUGHEED RD. BARRIE CITY ON	NNW/91.2	-5.97	35
9	WWIS		lot 24 con 11 ESSA ON	W/104.2	1.00	36
10	EHS		Country Side Drive & Mcvean Dr Brampton ON	N/109.4	-12.06	37
11	WWIS		lot 23 con 11 ON	SSW/119.6	14.95	37
12	SPL	The Corporation of the City of Barrie	24 Lougheed Road Barrie ON	NNW/122.4	-7.81	41
13	WWIS		lot 1 con 11 ON	NNW/134.4	-6.54	41
14	WWIS		lot 1 con 10 ON	SE/164.7	14.95	44
15	WWIS		Innisfil ON	SE/167.1	14.95	46
16	WWIS		lot 23 con 11 ON	SSW/183.0	14.67	49
17	EBR	Holcim (Canada) Inc.	4165 Salem Road West Innisfil ON L9S 3K9	SE/189.0	14.95	53
17	GEN	Holcim (Canada) Inc.	4165 Salem Rd. Innisfil ON L9S 3K9	SE/189.0	14.95	53
17	GEN	UNILOCK LTD	4165 SALEM ROAD INNISFIL ON L9S 3K9	SE/189.0	14.95	54
17	GEN	Holcim (Canada) Inc.	4165 Salem Rd. Innisfil ON L9S 3K9	SE/189.0	14.95	54
18	WWIS		Innisfil ON	SSE/208.5	13.95	55
19	WWIS		lot 2 con 11 ON	N/219.4	-12.21	57
20	GEN	Unilock Ltd	441 Salem Rd. Barrie ON L9J 0S8	SE/225.1	14.95	60
20	GEN	Unilock Ltd	441 Salem Rd. Barrie ON L9J 0S8	SE/225.1	14.95	61

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
20	GEN	Unilock Ltd	441 Salem Rd. Barrie ON L9J 0S8	SE/225.1	14.95	61
20	GEN	Unilock Ltd	441 Salem Rd. Barrie ON L9J 0S8	SE/225.1	14.95	62
21	BORE		ON	NW/232.1	-19.05	62
22	BORE		ON	NW/233.7	-19.05	63
23	CA	BARRIE DEVELOPMENT CORPORATION	COLUMBIA RD.S./ATHABASKA RD. BARRIE CITY ON	NNE/242.0	3.31	63
24	WWIS		lot 2 con 10 ON	SE/242.0	14.95	63
25	ECA	Holcim (Canada) Inc.	4165 Salem Road West Innisfil Town ON L9S 3K9	SE/242.6	14.95	66
26	BORE		ON	NW/243.9	-19.02	67
27	BORE		ON	NW/244.2	-19.05	67
28	ECA	Holcim (Canada) Inc.	4165 Salem Rd W Innisfil ON L4K 5X6	SE/249.4	14.95	67
28	GEN	CRH Canada Group Inc.	4165 Salem Rd. Innisfil ON L4M4S7	SE/249.4	14.95	68
28	GEN	CRH Canada Group Inc. Dufferin Concrete	4165 Salem Rd. Innisfil ON L4M4S7	SE/249.4	14.95	68
28	GEN	CRH Canada Group Inc.	4165 Salem Rd. Innisfil ON L4M4S7	SE/249.4	14.95	69
28	GEN	Holcim (Canada) Inc.	4165 Salem Rd. Innisfil ON L4M4S7	SE/249.4	14.95	69
28	GEN	Holcim (Canada) Inc.	4165 Salem Rd. Innisfil ON	SE/249.4	14.95	70
28	GEN	Holcim (Canada) Inc.	4165 Salem Rd. Innisfil ON L9S 3K9	SE/249.4	14.95	70
28	LIMO	Ministry of Transportation	4165 Salem Road; South 1/2 of Lot 1, Concession 11 Town of Innisfil ON	SE/249.4	14.95	71
28	NPRI	DUFFERIN CONCRETE	4165 Salem Road Innisfil ON L9S3L1	SE/249.4	14.95	71
28	NPRI	Dufferin Concrete	4165 West Salem Rd. Innisfil ON L4M4S7	SE/249.4	14.95	72
28	NPRI	DUFFERIN CONCRETE	4165 Salem Road Innisfil ON L9S3L1	SE/249.4	14.95	73
28	NPRI	Dufferin Concrete a Division of CRH Canada Group Inc.	4165 Salem Road Innisfil ON L9S3L1	SE/249.4	14.95	73

Executive Summary: Summary By Data Source

ANDR - Anderson's Waste Disposal Sites

A search of the ANDR database, dated 1860s-Present has found that there are 1 ANDR site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Innisfil Con 11 Dump	Stroud ON L0L 2M0	89.2	<u>7</u>

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 4 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	232.1	<u>21</u>
	ON	233.7	<u>22</u>
	ON	243.9	<u>26</u>
	ON	244.2	<u>27</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 3 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
BARRIE DEVELOPMENT CORPORATION	SELKIRK CRES/LOUGHEED RD. BARRIE CITY ON	91.2	<u>8</u>
BARRIE DEVELOPMENT CORPORATION	SELKIRK CRES/LOUGHEED RD. BARRIE CITY ON	91.2	<u>8</u>
BARRIE DEVELOPMENT CORPORATION	COLUMBIA RD.S./ATHABASKA RD. BARRIE CITY ON	242.0	<u>23</u>

EBR - Environmental Registry

A search of the EBR database, dated 1994-Oct 2017 has found that there are 1 EBR site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Holcim (Canada) Inc.	4165 Salem Road West Innisfil ON L9S 3K9	189.0	17

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Jan 31, 2018 has found that there are 2 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Holcim (Canada) Inc.	4165 Salem Road West Innisfil Town ON L9S 3K9	242.6	25
Holcim (Canada) Inc.	4165 Salem Rd W Innisfil ON L4K 5X6	249.4	28

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Feb 28, 2018 has found that there are 1 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	Country Side Drive & Mcvean Dr Brampton ON	109.4	10

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-December 31, 2017 has found that there are 13 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Holcim (Canada) Inc.	4165 Salem Rd. Innisfil ON L9S 3K9	189.0	17
Holcim (Canada) Inc.	4165 Salem Rd. Innisfil ON L9S 3K9	189.0	17
UNILOCK LTD	4165 SALEM ROAD INNISFIL ON L9S 3K9	189.0	17
Unilock Ltd	441 Salem Rd. Barrie ON L9J 0S8	225.1	20
Unilock Ltd	441 Salem Rd. Barrie ON L9J 0S8	225.1	20
Unilock Ltd	441 Salem Rd. Barrie ON L9J 0S8	225.1	20
Unilock Ltd	441 Salem Rd. Barrie ON L9J 0S8	225.1	20
CRH Canada Group Inc.	4165 Salem Rd. Innisfil ON L4M4S7	249.4	28

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Holcim (Canada) Inc.	4165 Salem Rd. Innisfil ON L4M4S7	249.4	<u>28</u>
CRH Canada Group Inc.	4165 Salem Rd. Innisfil ON L4M4S7	249.4	<u>28</u>
Holcim (Canada) Inc.	4165 Salem Rd. Innisfil ON	249.4	<u>28</u>
Holcim (Canada) Inc.	4165 Salem Rd. Innisfil ON L9S 3K9	249.4	<u>28</u>
CRH Canada Group Inc. Dufferin Concrete	4165 Salem Rd. Innisfil ON L4M4S7	249.4	<u>28</u>

LIMO - Landfill Inventory Management Ontario

A search of the LIMO database, dated Dec 31, 2013 has found that there are 1 LIMO site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Ministry of Transportation	4165 Salem Road; South 1/2 of Lot 1, Concession 11 Town of Innisfil ON	249.4	<u>28</u>

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated 1993-May 2017 has found that there are 4 NPRI site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Dufferin Concrete	4165 West Salem Rd. Innisfil ON L4M4S7	249.4	<u>28</u>
DUFFERIN CONCRETE	4165 Salem Road Innisfil ON L9S3L1	249.4	<u>28</u>
Dufferin Concrete a Division of CRH Canada Group Inc.	4165 Salem Road Innisfil ON L9S3L1	249.4	<u>28</u>
DUFFERIN CONCRETE	4165 Salem Road Innisfil ON L9S3L1	249.4	<u>28</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2017 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
The Corporation of the City of Barrie	24 Lougheed Road Barrie ON	122.4	<u>12</u>

WDS - Waste Disposal Sites - MOE CA Inventory

A search of the WDS database, dated Oct 2011-Jan 31, 2018 has found that there are 1 WDS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
MTO HOLLY PIT LANDFILL SITE	INNISFILL ON	74.1	<u>6</u>

WDSH - Waste Disposal Sites - MOE 1991 Historical Approval Inventory

A search of the WDSH database, dated Up to Oct 1990* has found that there are 1 WDSH site(s) within approximately 0.25 kilometers of the project property.

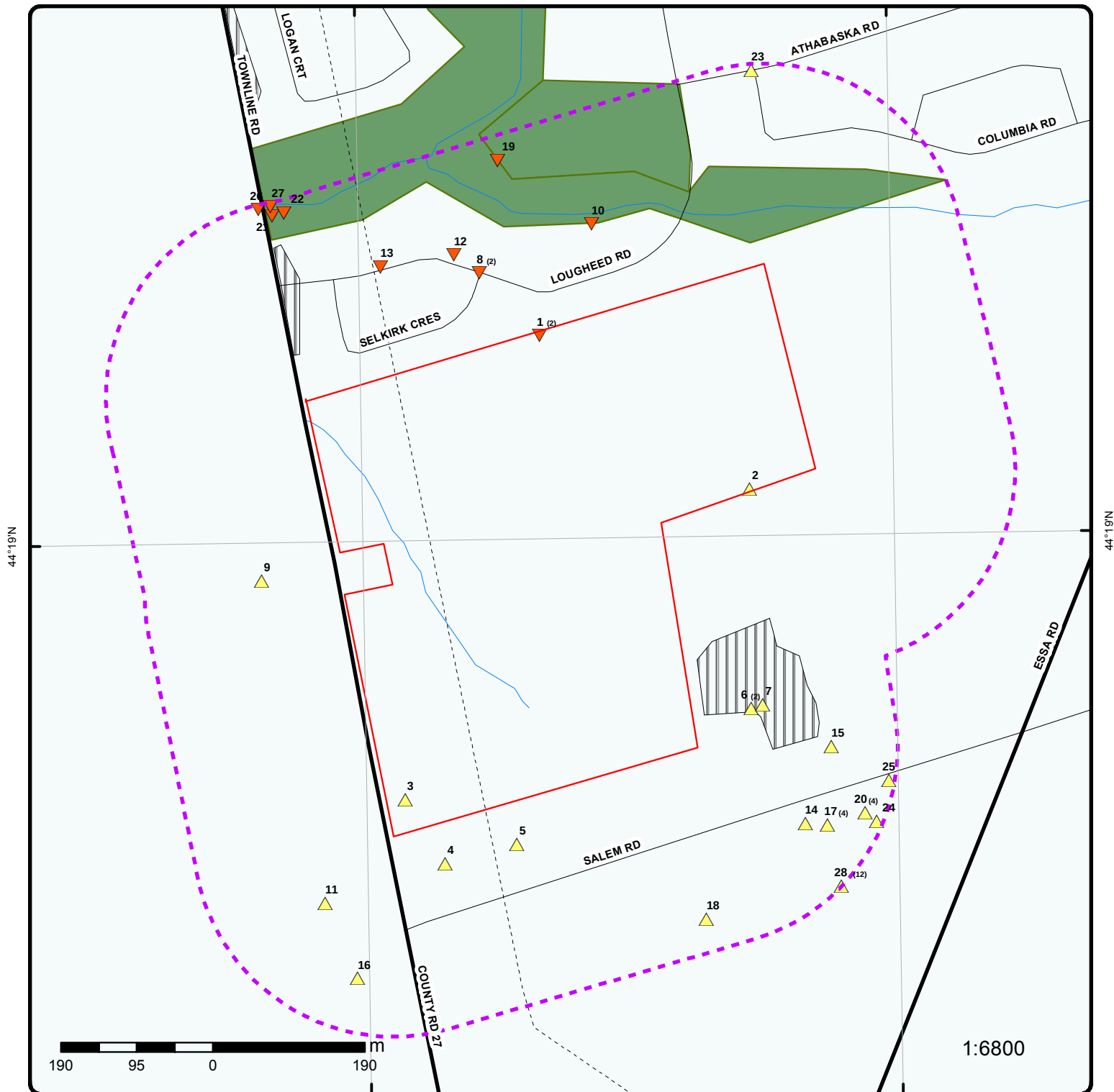
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	PT 1 S1/2 11 INNISFIL ON	74.1	<u>6</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Mar 31, 2017 has found that there are 15 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 1 con 11 ON	0.0	<u>1</u>
	lot 1 con 11 ON	0.0	<u>1</u>
	lot 1 con 11 Innisfil ON	0.0	<u>2</u>
	lot 1 con 11 ON	0.0	<u>3</u>
	lot 1 con 11 ON	50.3	<u>4</u>
	lot 1 con 11 ON	52.6	<u>5</u>
	lot 24 con 11 ESSA ON	104.2	<u>9</u>
	lot 23 con 11 ON	119.6	<u>11</u>
	lot 1 con 11 ON	134.4	<u>13</u>
	lot 1 con 10 ON	164.7	<u>14</u>
	Innisfil ON	167.1	<u>15</u>
	lot 23 con 11 ON	183.0	<u>16</u>
	Innisfil ON	208.5	<u>18</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 2 con 11 ON	219.4	<u>19</u>
	lot 2 con 10 ON	242.0	<u>24</u>



Map : 0.25 Kilometer Radius

Order No: 20180329061

Address: County Rd 27 And Salem Rd, Barrie, ON



Project Property	Expressway	Industrial and Resource - Regions	National Park
Buffer Outline	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Higher Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Same Elevation	Major Road	Transit Line	Golf Course or Driving Range
Eris Sites with Lower Elevation	Local road	Abandoned Line	Park or Sports Field
Eris Sites with Unknown Elevation	Trail		Other Recreation Area
	Proposed Road		
	Ferry Route/Ice Road		

79°43'30"W

44°19'30"N

44°19'30"N



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Aerial (2016)

Address: County Rd 27 And Salem Rd, Barrie, ON

Source: ESRI World Imagery

Order No: 20180329061

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



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79°45'W

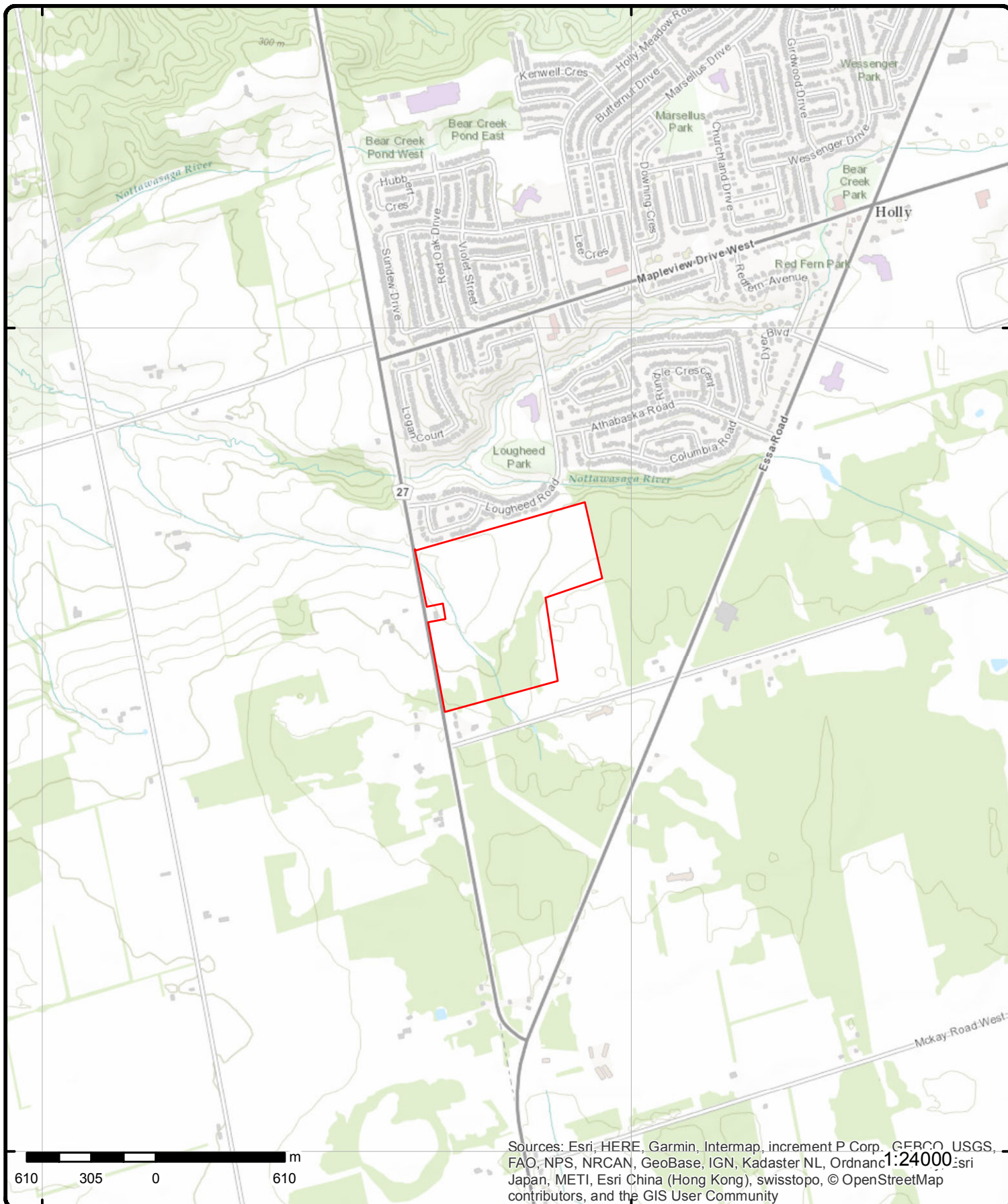
79°43'30"W

44°19'30"N

44°19'30"N

44°18'N

44°18'N



Topographic Map

Address: County Rd 27 And Salem Rd, Barrie, ON

Source: ESRI World Topographic Map

Order No: 20180329061



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Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 2	-/0.0	294.9 / -1.02	lot 1 con 11 ON	WWIS
Well ID: 5723994 Construction Date: Primary Water Use: Domestic Sec. Water Use: Final Well Status: Water Supply Water Type: Casing Material: Audit No: 29976 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: Data Entry Status: Data Src: 1 Date Received: 10/11/1988 Selected Flag: 1 Abandonment Rec: Contractor: 2662 Form Version: 1 Owner: Street Name: County: SIMCOE Municipality: INNISFIL TOWNSHIP Site Info: Lot: 001 Concession: 11 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:					
<u>Bore Hole Information</u>					
Bore Hole ID: 10401604 DP2BR: Code OB: 0 Code OB Desc: Overburden Open Hole: Elevation: 294.558288 Elevrc: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: Spatial Status: Cluster Kind: UTMRC: 9 UTMRC Desc: unknown UTM Location Method: lot Org CS: Date Completed: 9/1/1988					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID: 932358012 Layer: 1 Color: 6 General Color: BROWN Mat1: 28 Most Common Material: SAND Mat2: Other Materials: Mat3:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Materials:					
Formation Top Depth:		0.00			
Formation End Depth:		18.00			
Formation End Depth UOM:		ft			
Formation ID:		932358013			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		81			
Other Materials:		SANDY			
Mat3:					
Other Materials:					
Formation Top Depth:		18.00			
Formation End Depth:		120.00			
Formation End Depth UOM:		ft			
Formation ID:		932358014			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		68			
Other Materials:		DRY			
Mat3:					
Other Materials:					
Formation Top Depth:		120.00			
Formation End Depth:		190.00			
Formation End Depth UOM:		ft			
Formation ID:		932358015			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		81			
Other Materials:		SANDY			
Mat3:		91			
Other Materials:		WATER-BEARING			
Formation Top Depth:		190.00			
Formation End Depth:		235.00			
Formation End Depth UOM:		ft			
Formation ID:		932358016			
Layer:		5			
Color:		2			
General Color:		GREY			
Mat1:		28			
Most Common Material:		SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		235.00			
Formation End Depth:		239.00			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933189156			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		1			
Plug From:		0.00			
Plug To:		60.00			
Plug Depth UOM:		ft			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		965723994			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10950174			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930654390			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		235.00			
Casing Diameter:		6.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Construction Record - Screen</u>					
Screen ID:		933373881			
Layer:		1			
Slot:		008			
Screen Top Depth:		236.00			
Screen End Depth:		239.00			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		6.00			
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		995723994			
Pump Set At:					
Static Level:		107.00			
Final Level After Pumping:		225.00			
Recommended Pump Depth:		225.00			
Pumping Rate:		10.00			
Flowing Rate:					
Recommended Pump Rate:		8.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		3			
Pumping Duration MIN:		15			
Flowing:		N			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934307865			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		225.00			
Test Level UOM:		ft			
Pump Test Detail ID:		935098567			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		225.00			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933883829			
Layer:		1			
Kind Code:		5			
Kind:		Not stated			
Water Found Depth:		235.00			
Water Found Depth UOM:		ft			
<u>1</u>	2 of 2	-/0.0	294.9 / -1.02	lot 1 con 11 ON	WWIS
Well ID:	5723814			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	9/20/1988
Sec. Water Use:				Selected Flag:	1
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	2662
Casing Material:				Form Version:	1
Audit No:	29977			Owner:	
Tag:				Street Name:	
Construction				County:	SIMCOE
Method:				Municipality:	INNISFIL TOWNSHIP
Elevation (m):				Site Info:	
Elevation Reliability:				Lot:	001
Depth to Bedrock:				Concession:	11
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Flowing (Y/N):				UTM Reliability:	
Flow Rate:					
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10401424			Spatial Status:	
DP2BR:				Cluster Kind:	
Code OB:	0			UTMRC:	9
Code OB Desc:	Overburden			UTMRC Desc:	unknown UTM
Open Hole:				Location Method:	lot
Elevation:	294.558288			Org CS:	
Elevrc:				Date Completed:	8/30/1988
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Improvement Location Method: Source Revision Comment: Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932357236			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0.00			
Formation End Depth:		14.00			
Formation End Depth UOM:		ft			
Formation ID:		932357237			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		81			
Other Materials:		SANDY			
Mat3:					
Other Materials:					
Formation Top Depth:		14.00			
Formation End Depth:		90.00			
Formation End Depth UOM:		ft			
Formation ID:		932357238			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		68			
Other Materials:		DRY			
Mat3:					
Other Materials:					
Formation Top Depth:		90.00			
Formation End Depth:		170.00			
Formation End Depth UOM:		ft			
Formation ID:		932357239			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		81			
Other Materials:		SANDY			
Mat3:					
Other Materials:					
Formation Top Depth:		170.00			
Formation End Depth:		238.00			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Sealing Record</u>					
Plug ID:		933189080			
Layer:		1			
Plug From:		0.00			
Plug To:		60.00			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		965723814			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10949994			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930654164			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		235.00			
Casing Diameter:		6.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		933373802			
Layer:		1			
Slot:		010			
Screen Top Depth:		235.00			
Screen End Depth:		239.00			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		6.00			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995723814			
Pump Set At:					
Static Level:		108.00			
Final Level After Pumping:		225.00			
Recommended Pump Depth:		225.00			
Pumping Rate:		10.00			
Flowing Rate:					
Recommended Pump Rate:		8.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Duration HR:	4				
Pumping Duration MIN:	0				
Flowing:	N				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:	934307312				
Test Type:	Draw Down				
Test Duration:	15				
Test Level:	225.00				
Test Level UOM:	ft				
Pump Test Detail ID:	935098444				
Test Type:	Draw Down				
Test Duration:	60				
Test Level:	225.00				
Test Level UOM:	ft				
<u>Water Details</u>					
Water ID:	933883640				
Layer:	1				
Kind Code:	5				
Kind:	Not stated				
Water Found Depth:	234.00				
Water Found Depth UOM:	ft				
2	1 of 1	-/0.0	309.9 / 13.98	lot 1 con 11 Innisfil ON	WWIS
Well ID:	7176146			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring			Date Received:	2/1/2012
Sec. Water Use:				Selected Flag:	1
Final Well Status:	Observation Wells			Abandonment Rec:	
Water Type:				Contractor:	7190
Casing Material:				Form Version:	7
Audit No:	Z133895			Owner:	
Tag:	A076094			Street Name:	4154 SALEM RD.
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	INNISFIL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	001
Well Depth:				Concession:	11
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	1003641599			Spatial Status:	
DP2BR:				Cluster Kind:	
Code OB:				UTMRC:	4
Code OB Desc:				UTMRC Desc:	margin of error : 30 m - 100 m
Open Hole:				Location Method:	wwr
Elevation:	309.676452			Org CS:	UTM83
Elevrc:				Date Completed:	10/19/2011
Remarks:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004041324			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		08			
Most Common Material:		FINE SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0.00			
Formation End Depth:		15.00			
Formation End Depth UOM:		ft			
Formation ID:		1004041325			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		08			
Most Common Material:		FINE SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		15.00			
Formation End Depth:		25.00			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004041332			
Layer:		1			
Plug From:		10.00			
Plug To:		0.00			
Plug Depth UOM:		ft			
Plug ID:		1004041333			
Layer:		2			
Plug From:		13.00			
Plug To:		10.00			
Plug Depth UOM:		ft			
Plug ID:		1004041334			
Layer:		3			
Plug From:		25.00			
Plug To:		13.00			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004041331			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004041323			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004041328			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		15.00			
Depth To:		25.00			
Casing Diameter:		2.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1004041329			
Layer:		1			
Slot:		.01			
Screen Top Depth:		25.00			
Screen End Depth:		15.00			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2.00			
<u>Water Details</u>					
Water ID:		1004041327			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		13.00			
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1004041326			
Diameter:		8.00			
Depth From:		25.00			
Depth To:		0.00			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
<u>3</u>	1 of 1	-/0.0	303.2 / 7.25	lot 1 con 11 ON	WWIS
Well ID:		5708744		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Domestic		Date Received:	4/13/1972
Sec. Water Use:		0		Selected Flag:	1
Final Well Status:		Water Supply		Abandonment Rec:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Type:				Contractor:	1204
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction				County:	SIMCOE
Method:				Municipality:	INNISFIL TOWNSHIP
Elevation (m):				Site Info:	
Elevation Reliability:				Lot:	001
Depth to Bedrock:				Concession:	11
Well Depth:				Concession Name:	CON
Overburden/Bedrock:				Easting NAD83:	
Pump Rate:				Northing NAD83:	
Static Water Level:				Zone:	
Flowing (Y/N):				UTM Reliability:	
Flow Rate:					
Clear/Cloudy:					

Bore Hole Information

Bore Hole ID:	10386573	Spatial Status:	
DP2BR:		Cluster Kind:	
Code OB:	0	UTMRC:	4
Code OB Desc:	Overburden	UTMRC Desc:	margin of error : 30 m - 100 m
Open Hole:		Location Method:	p4
Elevation:	304.231994	Org CS:	
Elevrc:		Date Completed:	1/28/1972
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	932291150
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0.00
Formation End Depth:	4.00
Formation End Depth UOM:	ft
Formation ID:	932291151
Layer:	2
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Other Materials:	SAND
Mat3:	
Other Materials:	
Formation Top Depth:	4.00
Formation End Depth:	30.00
Formation End Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		932291152			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		30.00			
Formation End Depth:		49.00			
Formation End Depth UOM:		ft			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		965708744			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10935143			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930635982			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		49.00			
Casing Diameter:		5.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		995708744			
Pump Set At:					
Static Level:		12.00			
Final Level After Pumping:		36.00			
Recommended Pump Depth:		47.00			
Pumping Rate:		2.00			
Flowing Rate:					
Recommended Pump Rate:		2.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		6			
Pumping Duration MIN:		0			
Flowing:		N			
 <u>Draw Down & Recovery</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID: 934289623					
Test Type: Recovery					
Test Duration: 15					
Test Level: 29.00					
Test Level UOM: ft					
Pump Test Detail ID: 934565955					
Test Type: Recovery					
Test Duration: 30					
Test Level: 24.00					
Test Level UOM: ft					
Pump Test Detail ID: 934816150					
Test Type: Recovery					
Test Duration: 45					
Test Level: 20.00					
Test Level UOM: ft					
Pump Test Detail ID: 935082457					
Test Type: Recovery					
Test Duration: 60					
Test Level: 14.00					
Test Level UOM: ft					
Water Details					
Water ID: 933868359					
Layer: 1					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 49.00					
Water Found Depth UOM: ft					
4	1 of 1	SSW/50.3	306.9 / 10.95	lot 1 con 11 ON	WWIS
Well ID: 5715823					
Construction Date:					
Primary Water Use: Domestic					
Sec. Water Use: 0					
Final Well Status: Water Supply					
Water Type:					
Casing Material:					
Audit No:					
Tag:					
Construction Method:					
Elevation (m):					
Elevation Reliability:					
Depth to Bedrock:					
Well Depth:					
Overburden/Bedrock:					
Pump Rate:					
Static Water Level:					
Flowing (Y/N):					
Flow Rate:					
Clear/Cloudy:					
Data Entry Status:					
Data Src: 1					
Date Received: 1/31/1979					
Selected Flag: 1					
Abandonment Rec:					
Contractor: 4608					
Form Version: 1					
Owner:					
Street Name:					
County: SIMCOE					
Municipality: INNISFIL TOWNSHIP					
Site Info:					
Lot: 001					
Concession: 11					
Concession Name: CON					
Easting NAD83:					
Northing NAD83:					
Zone:					
UTM Reliability:					
Bore Hole Information					
Bore Hole ID: 10393530					
DP2BR:					
Code OB: 0					
Spatial Status:					
Cluster Kind:					
UTMRC: 5					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Code OB Desc:	Overburden			UTMRC Desc:	margin of error : 100 m - 300 m
Open Hole:				Location Method:	p5
Elevation:	306.703308			Org CS:	
Elevrc:				Date Completed:	5/6/1978
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932321901			
Layer:		1			
Color:					
General Color:					
Mat1:		28			
Most Common Material:		SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0.00			
Formation End Depth:		17.00			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		965715823			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10942100			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930644072			
Layer:		1			
Material:		3			
Open Hole or Material:		CONCRETE			
Depth From:					
Depth To:		17.00			
Casing Diameter:		30.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995715823			
Pump Set At:					
Static Level:		9.00			
Final Level After Pumping:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Recommended Pump Depth: 14.00					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate: 3.00					
Levels UOM: ft					
Rate UOM: GPM					
Water State After Test Code:					
Water State After Test:					
Pumping Test Method: 2					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing: N					
<u>Water Details</u>					
Water ID: 933875705					
Layer: 1					
Kind Code: 1					
Kind: FRESH					
Water Found Depth: 8.00					
Water Found Depth UOM: ft					

5	1 of 1	S/52.6	304.4 / 8.52	lot 1 con 11 ON	WWIS
Well ID: 5722089					
Construction Date:					
Primary Water Use:					
Sec. Water Use:					
Final Well Status: Water Supply					
Water Type:					
Casing Material:					
Audit No: 06628					
Tag:					
Construction Method:					
Elevation (m):					
Elevation Reliability:					
Depth to Bedrock:					
Well Depth:					
Overburden/Bedrock:					
Pump Rate:					
Static Water Level:					
Flowing (Y/N):					
Flow Rate:					
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID: 10399712					
DP2BR:					
Code OB: 0					
Code OB Desc: Overburden					
Open Hole:					
Elevation: 304.987121					
Elevrc:					
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
Spatial Status:					
Cluster Kind:					
UTMRC: 5					
UTMRC Desc: margin of error : 100 m - 300 m					
Location Method: gis					
Org CS:					
Date Completed: 4/14/1987					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932349289			
Layer:		1			
Color:		8			
General Color:		BLACK			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0.00			
Formation End Depth:		1.00			
Formation End Depth UOM:		ft			
Formation ID:		932349290			
Layer:		2			
Color:		5			
General Color:		YELLOW			
Mat1:		28			
Most Common Material:		SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		1.00			
Formation End Depth:		15.00			
Formation End Depth UOM:		ft			
Formation ID:		932349291			
Layer:		3			
Color:		5			
General Color:		YELLOW			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		05			
Other Materials:		CLAY			
Mat3:		74			
Other Materials:		LAYERED			
Formation Top Depth:		15.00			
Formation End Depth:		55.00			
Formation End Depth UOM:		ft			
Formation ID:		932349292			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Other Materials:		STONES			
Mat3:					
Other Materials:					
Formation Top Depth:		55.00			
Formation End Depth:		105.00			
Formation End Depth UOM:		ft			
Formation ID:		932349293			
Layer:		5			
Color:		5			
General Color:		YELLOW			
Mat1:		28			
Most Common Material:		SAND			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:		05			
Other Materials:		CLAY			
Mat3:					
Other Materials:					
Formation Top Depth:		105.00			
Formation End Depth:		155.00			
Formation End Depth UOM:		ft			
Formation ID:		932349294			
Layer:		6			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		28			
Other Materials:		SAND			
Mat3:					
Other Materials:					
Formation Top Depth:		155.00			
Formation End Depth:		175.00			
Formation End Depth UOM:		ft			
Formation ID:		932349295			
Layer:		7			
Color:		5			
General Color:		YELLOW			
Mat1:		28			
Most Common Material:		SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		175.00			
Formation End Depth:		180.00			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		965722089			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10948282			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930651979			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		158.00			
Casing Diameter:		6.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930651980			
Layer:		2			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		177.00			
Casing Diameter:		5.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Construction Record - Screen</u>					
Screen ID:		933372883			
Layer:		1			
Slot:		010			
Screen Top Depth:		177.00			
Screen End Depth:		180.00			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		6.00			
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		995722089			
Pump Set At:					
Static Level:		104.00			
Final Level After Pumping:		160.00			
Recommended Pump Depth:		170.00			
Pumping Rate:		9.00			
Flowing Rate:					
Recommended Pump Rate:		8.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		2			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:		N			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		935093604			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		160.00			
Test Level UOM:		ft			
 <u>Water Details</u>					
Water ID:		933881892			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		175.00			
Water Found Depth UOM:		ft			
6	1 of 2	SE/74.1	310.9 / 14.95	MTO HOLLY PIT LANDFILL SITE	WDS
				INNISFILL ON	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Certificate No: A252204 Mob Unit Cert No: EBR Registry No: Status: Held up pending more information from applicant Application Status: Issue Date: 12/31/1999 Input Date: 9/23/99 Date Received: 5/17/99 Record Type: Project Type: Approval Type: SWP Area Name: MOE District: Latitude: Longitude: Link Source: Proponent: MTO HOLLY PIT LANDFILL SITE Prop Address: LOT 1 CONCESSION 11 Prop City: ONTARIO, INNISFILL Prop Postal: L0L-1X0 Prop Phone: Proponent County/District: Site Lot: SOUTH 1/2 LOT 1 Full Address: Landfill Monitoring: Waste Type: Waste Type Other: No Waste Class: Waste Class Code: Project Description: Municipalities Served: Site Closing Description: Approval Description: Waste Description: Other Approvals/Permits: PDF URL: Facility Type: Landfill Site Concession: 11 Site Region/County: SIMCOE Total Area (ha): 0 Landfill Cap (m³): 0 Landfill Ctrl Type: Est Closure Date: Transfer Area (ha): 0 Transfer Cap (m³): 0 Transfer Cert No: Inciner. Area (ha): 0 Inciner. Cap (t): 0 Process Area (m³): 0 Process Cap (m³/d): 0 Process Vol (m³): 0 Process Feed (m³): 0 Mobile Units: Mobile Description: Mobile Capacity: 0 Serial Link: 252204 District Office: Barrie					
6	2 of 2	SE/74.1	310.9 / 14.95	PT 1 S1/2 11 INNISFIL ON	WDSH
Site No.: A252204 Region: CENTRAL County: SIMCOE Concession: 11 Lot: PT 1 S1/2 Easting:: 601500 Northing:: 4907400 Zone:: 17 Date Closed: 1980/9/1 Status:: CLOSED Classification:: A4 - POTENTIAL HUMAN IMPACT-RURAL MUNICIPAL/DOMESTIC WASTE - CLOSED <10 YRS %CommercialWste:: n/a %DomesticWste Rec:: n/a %LiquidWste Rec:: n/a %HazardousWste Rec:: n/a %Non-haz.Wste Rec:: n/a %Sewage/Sludge Rec:: n/a %Other Wste Rec:: n/a					
7	1 of 1	SE/89.2	310.9 / 14.98	Innisfil Con 11 Dump	ANDR

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Stroud ON L0L 2M0					
Legal Description:		Innisfil Con 11 Lot 1s pt			
Location Description:					
Municipality:		Innisfil Township			
Current Municipality:		Innisfil Town			
RM:		Simcoe County			
Facility:		Dump			
Date Active:		1970s-80s			
Date Begun:					
Date Complete:		Sep 1 1980			
Area (Ha):					
Landfill Type:					
Group Name:					
Operated By:					
Serial:		MOEE a252204			
NTS:		31D05			
Diameter (m):					
Historical Summary:					
Innisfil Con 11 Landfill Listed in Ontario Ministry of the Environment [1994] Waste disposal site inventory, [Toronto]: Ontario Environment, 1994., i, 196 pp., maps, ISBN 0772984093					
Waste Type:					
UTM X Nad 27:		601500			
UTM Y Nad 27:		4907400			
UTM Zone:		17			
8	1 of 2	NNW/91.2	289.9 / -5.97	BARRIE DEVELOPMENT CORPORATION SELKIRK CRES/LOUGHEED RD. BARRIE CITY ON	CA
Certificate #:		3-1092-96-			
Application Year:		96			
Issue Date:		9/24/1996			
Approval Type:		Municipal sewage			
Status:		Approved			
Application Type:					
Client Name::					
Client Address::					
Client City::					
Client Postal Code::					
Project Description::					
Contaminants::					
Emission Control::					
8	2 of 2	NNW/91.2	289.9 / -5.97	BARRIE DEVELOPMENT CORPORATION SELKIRK CRES/LOUGHEED RD. BARRIE CITY ON	CA
Certificate #:		7-0891-96-			
Application Year:		96			
Issue Date:		9/24/1996			
Approval Type:		Municipal water			
Status:		Approved			
Application Type:					
Client Name::					
Client Address::					
Client City::					
Client Postal Code::					
Project Description::					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contaminants::					
Emission Control::					
9	1 of 1	W/104.2	296.9 / 1.00	lot 24 con 11 ESSA ON	WWIS
Well ID: 7053919 Construction Date: Primary Water Use: Not Used Sec. Water Use: Final Well Status: Abandoned-Other Water Type: Casing Material: Audit No: Z48268 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: Data Entry Status: Data Src: Date Received: 12/18/2007 Selected Flag: 1 Abandonment Rec: Yes Contractor: 5528 Form Version: 3 Owner: Street Name: 7816 LTYC RD 27 County: SIMCOE Municipality: ESSA TOWNSHIP Site Info: Lot: 024 Concession: 11 Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:					
<u>Bore Hole Information</u>					
Bore Hole ID: 23053919 DP2BR: Code OB: Code OB Desc: Open Hole: Elevation: 298.094451 Elevrc: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: Spatial Status: Cluster Kind: UTMRC: 3 UTMRC Desc: margin of error : 10 - 30 m Location Method: wwr Org CS: UTM83 Date Completed: 11/14/2007					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID: 44008468 Layer: 1 Plug From: 0.00 Plug To: 5.40 Plug Depth UOM: m					
<u>Method of Construction & Well Use</u>					
Method Construction ID: 25953919 Method Construction Code: B Method Construction: Other Method Other Method Construction:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Pipe Information</u>					
Pipe ID:		29053919			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		42253919			
Layer:		2			
Material:		3			
Open Hole or Material:		CONCRETE			
Depth From:		0.00			
Depth To:		5.40			
Casing Diameter:		90.00			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>10</u>	1 of 1	N/109.4	283.9 / -12.06	Country Side Drive & Mcvean Dr Brampton ON	EHS
Order ID:	203879			Date Received:	3/15/2012 4:53:53 PM
Order No:	20120315043			Lot/Building Size:	
Customer ID:	87867			Municipality:	Peel
Company ID:	41325			Client Prov/State:	ON
Status:	C			Search Radius (km):	0.25
Report Code:	4CAN			Large Radius:	0.25
Report Type:	Custom Report			X:	-79.729683
Report Date:	3/27/2012			Y:	44.320201
Report Requested by:	Soil Engineers Ltd.				
Nearest Intersection:					
Previous Site Name:					
Additional Info Ordered:					
<u>11</u>	1 of 1	SSW/119.6	310.9 / 14.95	lot 23 con 11 ON	WWIS
Well ID:	5720021			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	8/16/1985
Sec. Water Use:	0			Selected Flag:	1
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3660
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	ESSA TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	023
Well Depth:				Concession:	11
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10397650			Spatial Status:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
DP2BR:				Cluster Kind:	
Code OB:	0			UTMRC:	5
Code OB Desc:	Overburden			UTMRC Desc:	margin of error : 100 m - 300 m
Open Hole:				Location Method:	p5
Elevation:	311.052246			Org CS:	
Elevrc:				Date Completed:	5/17/1985
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932340341			
Layer:		1			
Color:		8			
General Color:		BLACK			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0.00			
Formation End Depth:		1.00			
Formation End Depth UOM:		ft			
Formation ID:		932340342			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		1.00			
Formation End Depth:		10.00			
Formation End Depth UOM:		ft			
Formation ID:		932340343			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		28			
Other Materials:		SAND			
Mat3:					
Other Materials:					
Formation Top Depth:		10.00			
Formation End Depth:		55.00			
Formation End Depth UOM:		ft			
Formation ID:		932340344			
Layer:		4			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		55.00			
Formation End Depth:		96.00			
Formation End Depth UOM:		ft			
Formation ID:					
Layer:		932340345			
Color:		5			
General Color:		6			
Mat1:		BROWN			
Most Common Material:		28			
Mat2:		SAND			
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		96.00			
Formation End Depth:		144.00			
Formation End Depth UOM:		ft			
Formation ID:					
Layer:		932340346			
Color:		6			
General Color:					
Mat1:		09			
Most Common Material:		MEDIUM SAND			
Mat2:		91			
Other Materials:		WATER-BEARING			
Mat3:					
Other Materials:					
Formation Top Depth:		144.00			
Formation End Depth:		151.00			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
<u>Use</u>					
Method Construction ID:		965720021			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10946220			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930649233			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		147.00			
Casing Diameter:		5.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Screen</u>					
Screen ID:		933371908			
Layer:		1			
Slot:		008			
Screen Top Depth:		147.00			
Screen End Depth:		150.00			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		5.00			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995720021			
Pump Set At:					
Static Level:		122.00			
Final Level After Pumping:		125.00			
Recommended Pump Depth:		125.00			
Pumping Rate:		10.00			
Flowing Rate:					
Recommended Pump Rate:		10.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		2			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934305082			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		122.00			
Test Level UOM:		ft			
Pump Test Detail ID:		934570761			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		122.00			
Test Level UOM:		ft			
Pump Test Detail ID:		934829968			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		122.00			
Test Level UOM:		ft			
Pump Test Detail ID:		935087507			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		122.00			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933879792			
Layer:		1			
Kind Code:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Kind:		FRESH			
Water Found Depth:		144.00			
Water Found Depth UOM:		ft			
12	1 of 1	NNW/122.4	288.1 / -7.81	The Corporation of the City of Barrie 24 Lougheed Road Barrie ON	SPL
Ref No:		0367-A2LLK5		Sector Type: Miscellaneous Communal	
Contaminant Name:		TRANSFORMER OIL (N.O.S.)		Source Type:	
Contaminant Code:		15		Receiving Medium:	
Contaminant Limit 1:				Receiving Env:	
Contam Limit Freq 1:				Environment Impact:	
Contaminant UN No 1:				Nature of Impact:	
Contaminant Qty:		3 L		SAC Action Class: Land Spills	
Material Group:				Year:	
MOE Reported Dt:		9/22/2015		Site Address: 24 Lougheed Road	
Health/Env Conseq:				Site Conc:	
Incident Dt:		9/22/2015		Site Lot:	
Incident Cause:				Site County/District:	
Incident Event:				Site Municipality: Barrie	
Incident Reason:		Equipment Failure		Site Postal Code:	
Incident Summary:		Powerstream transformer: Leaking to ground			
13	1 of 1	NNW/134.4	289.4 / -6.54	lot 1 con 11 ON	WWIS
Well ID:		5723993		Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:		Domestic		Date Received: 10/11/1988	
Sec. Water Use:				Selected Flag: 1	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 2662	
Casing Material:				Form Version: 1	
Audit No:		29982		Owner:	
Tag:				Street Name:	
Construction Method:				County: SIMCOE	
Elevation (m):				Municipality: INNISFIL TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 001	
Well Depth:				Concession: 11	
Overburden/Bedrock:				Concession Name: CON	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:		10401603		Spatial Status:	
DP2BR:				Cluster Kind:	
Code OB:		0		UTMRC: 5	
Code OB Desc:		Overburden		UTMRC Desc: margin of error : 100 m - 300 m	
Open Hole:				Location Method: gis	
Elevation:		288.915039		Org CS:	
Elevrc:				Date Completed: 9/7/1988	
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		932358008			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0.00			
Formation End Depth:		49.00			
Formation End Depth UOM:		ft			
Formation ID:		932358009			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		49.00			
Formation End Depth:		91.00			
Formation End Depth UOM:		ft			
Formation ID:		932358010			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		81			
Other Materials:		SANDY			
Mat3:					
Other Materials:					
Formation Top Depth:		91.00			
Formation End Depth:		145.00			
Formation End Depth UOM:		ft			
Formation ID:		932358011			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		28			
Most Common Material:		SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		145.00			
Formation End Depth:		150.00			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug ID:		933189155			
Layer:		1			
Plug From:		0.00			
Plug To:		60.00			
Plug Depth UOM:		ft			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		965723993			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10950173			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930654389			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		146.00			
Casing Diameter:		6.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Construction Record - Screen</u>					
Screen ID:		933373880			
Layer:		1			
Slot:		010			
Screen Top Depth:		146.00			
Screen End Depth:		150.00			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		6.00			
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		995723993			
Pump Set At:					
Static Level:		60.00			
Final Level After Pumping:		140.00			
Recommended Pump Depth:		140.00			
Pumping Rate:		10.00			
Flowing Rate:					
Recommended Pump Rate:		10.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		3			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Duration MIN:		20			
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934307864			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		140.00			
Test Level UOM:		ft			
Pump Test Detail ID:		935098566			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		140.00			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933883828			
Layer:		1			
Kind Code:		5			
Kind:		Not stated			
Water Found Depth:		145.00			
Water Found Depth UOM:		ft			

14	1 of 1	SE/164.7	310.9 / 14.95	lot 1 con 10 ON	WWIS
Well ID:		5710487		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Domestic		Date Received:	12/27/1973
Sec. Water Use:		0		Selected Flag:	1
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	4608
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	INNISFIL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	001
Well Depth:				Concession:	10
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

<u>Bore Hole Information</u>					
Bore Hole ID:		10388303		Spatial Status:	
DP2BR:				Cluster Kind:	
Code OB:		0		UTMRC:	5
Code OB Desc:		Overburden		UTMRC Desc:	margin of error : 100 m - 300 m
Open Hole:				Location Method:	p5
Elevation:		310.385528		Org CS:	
Elevrc:				Date Completed:	10/7/1973
Remarks:					
Elevrc Desc:					
Location Source Date:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932298405			
Layer:		1			
Color:					
General Color:					
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		0.00			
Formation End Depth:		1.00			
Formation End Depth UOM:		ft			
Formation ID:		932298406			
Layer:		2			
Color:					
General Color:					
Mat1:		28			
Most Common Material:		SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		1.00			
Formation End Depth:		5.00			
Formation End Depth UOM:		ft			
Formation ID:		932298407			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		5.00			
Formation End Depth:		28.00			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		965710487			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10936873			
Casing No:		1			
Comment:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930637928			
Layer:		1			
Material:		3			
Open Hole or Material:		CONCRETE			
Depth From:					
Depth To:		28.00			
Casing Diameter:		30.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995710487			
Pump Set At:					
Static Level:		13.00			
Final Level After Pumping:					
Recommended Pump Depth:		26.00			
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:		2.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		N			
<u>Water Details</u>					
Water ID:		933870336			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		15.00			
Water Found Depth UOM:		ft			

15	1 of 1	SE/167.1	310.9 / 14.95	Innisfil ON	WWIS
Well ID:	7048667			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring			Date Received:	8/28/2007
Sec. Water Use:				Selected Flag:	1
Final Well Status:	Observation Wells			Abandonment Rec:	
Water Type:				Contractor:	6809
Casing Material:				Form Version:	4
Audit No:	Z63332			Owner:	
Tag:	A059618			Street Name:	SALEM ROAD
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	INNISFIL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flowing (Y/N): Flow Rate: Clear/Cloudy:				Zone: UTM Reliability:	
<u>Bore Hole Information</u>					
Bore Hole ID:	23048667	Spatial Status:			
DP2BR:		Cluster Kind:			
Code OB:		UTMRC:			
Code OB Desc:		UTMRC Desc:			
Open Hole:		Location Method:			
Elevation:	308.993927	Org CS:			
Elevrc:		Date Completed:			
Remarks:		3			
Elevrc Desc:		margin of error : 10 - 30 m			
Location Source Date:		wwr			
Improvement Location Source:		UTM83			
Improvement Location Method:		8/2/2007			
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1000030548				
Layer:	1				
Color:	6				
General Color:	BROWN				
Mat1:	28				
Most Common Material:	SAND				
Mat2:	11				
Other Materials:	GRAVEL				
Mat3:					
Other Materials:					
Formation Top Depth:	0.00				
Formation End Depth:	45.00				
Formation End Depth UOM:	ft				
Formation ID:	1000030549				
Layer:	2				
Color:	2				
General Color:	GREY				
Mat1:	28				
Most Common Material:	SAND				
Mat2:	06				
Other Materials:	SILT				
Mat3:	66				
Other Materials:	DENSE				
Formation Top Depth:	45.00				
Formation End Depth:	80.00				
Formation End Depth UOM:	ft				
Formation ID:	1000030550				
Layer:	3				
Color:	2				
General Color:	GREY				
Mat1:	06				
Most Common Material:	SILT				
Mat2:	05				
Other Materials:	CLAY				
Mat3:					
Other Materials:					
Formation Top Depth:	80.00				
Formation End Depth:	84.00				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1000030552			
Layer:		1			
Plug From:		0.00			
Plug To:		10.00			
Plug Depth UOM:		ft			
Plug ID:		1000030553			
Layer:		2			
Plug From:		10.00			
Plug To:		70.00			
Plug Depth UOM:		ft			
Plug ID:		1000030554			
Layer:		3			
Plug From:		70.00			
Plug To:		72.00			
Plug Depth UOM:		ft			
Plug ID:		1000030555			
Layer:		4			
Plug From:		72.00			
Plug To:		82.00			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1000030560			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1000030546			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1000030557			
Layer:					
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:					
Depth To:		74.00			
Casing Diameter:		2.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1000030558			
Layer:					
Slot:					
Screen Top Depth:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Screen End Depth:					
Screen Material:					
Screen Depth UOM:					
Screen Diameter UOM:					
Screen Diameter:					
5					
Results of Well Yield Testing					
Pump Test ID:					
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:					
Rate UOM:					
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
1000030547					
ft					
GPM					
0					
0					
Water Details					
Water ID:					
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:					
1000030556					
1					
ft					
Hole Diameter					
Hole ID:					
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:					
Hole Diameter UOM:					
1000030551					
8.25					
84.00					
ft					
inch					

16	1 of 1	SSW/183.0	310.6 / 14.67	lot 23 con 11 ON	WWIS
Well ID:					
Construction Date:					
Primary Water Use:					
Sec. Water Use:					
Final Well Status:					
Water Type:					
Casing Material:					
Audit No:					
Tag:					
Construction Method:					
Elevation (m):					
Elevation Reliability:					
Depth to Bedrock:					
Well Depth:					
Overburden/Bedrock:					
Pump Rate:					
5732281					
Domestic					
Water Supply					
160505					
Data Entry Status:					
Data Src:					
Date Received:					
Selected Flag:					
Abandonment Rec:					
Contractor:					
Form Version:					
Owner:					
Street Name:					
County:					
Municipality:					
Site Info:					
Lot:					
Concession:					
Concession Name:					
Easting NAD83:					
1					
7/25/1996					
1					
2431					
1					
SIMCOE					
ESSA TOWNSHIP					
023					
11					
CON					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Northing NAD83: Zone: UTM Reliability:	
<u>Bore Hole Information</u>					
Bore Hole ID:	10409814	Spatial Status:			
DP2BR:		Cluster Kind:			
Code OB:	0	UTMRC:			5
Code OB Desc:	Overburden	UTMRC Desc:			margin of error : 100 m - 300 m
Open Hole:		Location Method:			gis
Elevation:	310.587463	Org CS:			
Elevrc:		Date Completed:			5/18/1995
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932398180				
Layer:	1				
Color:	6				
General Color:	BROWN				
Mat1:	08				
Most Common Material:	FINE SAND				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	0.00				
Formation End Depth:	7.00				
Formation End Depth UOM:	ft				
Formation ID:	932398181				
Layer:	2				
Color:	2				
General Color:	GREY				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:	84				
Other Materials:	SILTY				
Mat3:	11				
Other Materials:	GRAVEL				
Formation Top Depth:	7.00				
Formation End Depth:	31.00				
Formation End Depth UOM:	ft				
Formation ID:	932398182				
Layer:	3				
Color:	2				
General Color:	GREY				
Mat1:	05				
Most Common Material:	CLAY				
Mat2:	34				
Other Materials:	TILL				
Mat3:					
Other Materials:					
Formation Top Depth:	31.00				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth:		136.00			
Formation End Depth UOM:		ft			
Formation ID:		932398183			
Layer:		4			
Color:		6			
General Color:		BROWN			
Mat1:		08			
Most Common Material:		FINE SAND			
Mat2:		09			
Other Materials:		MEDIUM SAND			
Mat3:					
Other Materials:					
Formation Top Depth:		136.00			
Formation End Depth:		147.00			
Formation End Depth UOM:		ft			
Formation ID:		932398184			
Layer:		5			
Color:		6			
General Color:		BROWN			
Mat1:		08			
Most Common Material:		FINE SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		147.00			
Formation End Depth:		160.00			
Formation End Depth UOM:		ft			
 <u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933194866			
Layer:		1			
Plug From:		0.00			
Plug To:		12.00			
Plug Depth UOM:		ft			
Plug ID:		933194867			
Layer:		2			
Plug From:		12.00			
Plug To:		132.00			
Plug Depth UOM:		ft			
Plug ID:		933194868			
Layer:		3			
Plug From:		0.00			
Plug To:		140.00			
Plug Depth UOM:		ft			
 <u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		965732281			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10958384			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing No: Comment: Alt Name:		1			
<u>Construction Record - Casing</u>					
Casing ID:		930664496			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		142.00			
Casing Diameter:		6.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		933378516			
Layer:		1			
Slot:		016			
Screen Top Depth:		143.00			
Screen End Depth:		147.00			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		5.00			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995732281			
Pump Set At:					
Static Level:		122.00			
Final Level After Pumping:					
Recommended Pump Depth:		140.00			
Pumping Rate:		15.00			
Flowing Rate:					
Recommended Pump Rate:		10.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		30			
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934307100			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		125.00			
Test Level UOM:		ft			
Pump Test Detail ID:		934582408			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		123.00			
Test Level UOM:		ft			
Pump Test Detail ID:		934839194			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Type:		Recovery			
Test Duration:		45			
Test Level:		122.00			
Test Level UOM:		ft			
Pump Test Detail ID:		935097311			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		122.00			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933892365			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		143.00			
Water Found Depth UOM:		ft			
17	1 of 4	SE/189.0	310.9 / 14.95	Holcim (Canada) Inc. 4165 Salem Road West Innisfil ON L9S 3K9	EBR
EBR Registry No.:		010-7535			
Ministry Ref. No.:		4657-7UNQQ4			
Year:		2009			
Proposal Date:		August 11, 2009			
Notice Date:					
Notice Type:		Instrument Proposal			
Proponent Address:		2300 Steeles avenue West Concord Ontario Canada L4K 5X6			
Instrument Type:		(EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)			
Location:		4165 Salem Road West Innisfil, County of Simcoe, L9S 3K9			
Location Other:					
17	2 of 4	SE/189.0	310.9 / 14.95	Holcim (Canada) Inc. 4165 Salem Rd. Innisfil ON L9S 3K9	GEN
Generator No.:		ON5112908		PO Box No.:	
Status:				Country:	
Approval Years:		2010		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:		327320			
SIC Description:		Ready-Mix Concrete Manufacturing			
<u>--Details--</u>					
Waste Code:		212			
Waste Description:		ALIPHATIC SOLVENTS			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		213			
Waste Description:		PETROLEUM DISTILLATES			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Code: Waste Description:		221 LIGHT FUELS			
17	3 of 4	SE/189.0	310.9 / 14.95	UNILOCK LTD 4165 SALEM ROAD INNISFIL ON L9S 3K9	GEN
Generator No.: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:		ON3441608 05 327330 Concrete Pipe Brick and Block Manufacturing		PO Box No.: Country: Choice of Contact: Co Admin: Phone No. Admin:	
<u>--Details--</u>					
Waste Code: Waste Description:		145 PAINT/PIGMENT/COATING RESIDUES			
Waste Code: Waste Description:		148 INORGANIC LABORATORY CHEMICALS			
Waste Code: Waste Description:		252 WASTE OILS & LUBRICANTS			
Waste Code: Waste Description:		263 ORGANIC LABORATORY CHEMICALS			
Waste Code: Waste Description:		331 WASTE COMPRESSED GASES			
17	4 of 4	SE/189.0	310.9 / 14.95	Holcim (Canada) Inc. 4165 Salem Rd. Innisfil ON L9S 3K9	GEN
Generator No.: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:		ON5112908 2011 327320 Ready-Mix Concrete Manufacturing		PO Box No.: Country: Choice of Contact: Co Admin: Phone No. Admin:	
<u>--Details--</u>					
Waste Code: Waste Description:		252 WASTE OILS & LUBRICANTS			
Waste Code: Waste Description:		221 LIGHT FUELS			
Waste Code: Waste Description:		213 PETROLEUM DISTILLATES			
Waste Code: Waste Description:		212 ALIPHATIC SOLVENTS			
Waste Code: Waste Description:		251 OIL SKIMMINGS & SLUDGES			
Waste Code:		146			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Description:		OTHER SPECIFIED INORGANICS			
18	1 of 1	SSE/208.5	309.9 / 13.95	Innisfil ON	WWIS
Well ID: 7176147		Data Entry Status:			
Construction Date:		Data Src:			
Primary Water Use: Monitoring		Date Received: 2/1/2012		Selected Flag: 1	
Sec. Water Use:		Abandonment Rec:			
Final Well Status: Observation Wells		Contractor: 7190		Form Version: 7	
Water Type:		Owner:			
Casing Material:		Street Name: 4285 SALEM RD.			
Audit No: Z133800		County: SIMCOE			
Tag: A076132		Municipality: INNISFIL TOWNSHIP			
Construction Method:		Site Info:			
Elevation (m):		Lot:			
Elevation Reliability:		Concession:			
Depth to Bedrock:		Concession Name:			
Well Depth:		Easting NAD83:			
Overburden/Bedrock:		Northing NAD83:			
Pump Rate:		Zone:			
Static Water Level:		UTM Reliability:			
Flowing (Y/N):					
Flow Rate:					
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID: 1003645245		Spatial Status:			
DP2BR:		Cluster Kind:			
Code OB:		UTMRC: 4			
Code OB Desc:		UTMRC Desc: margin of error : 30 m - 100 m			
Open Hole:		Location Method: wwr			
Elevation: 309.317291		Org CS: UTM83			
Elevrc:		Date Completed: 10/18/2011			
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID: 1004041346					
Layer: 1					
Color: 6					
General Color: BROWN					
Mat1: 28					
Most Common Material: SAND					
Mat2: 11					
Other Materials: GRAVEL					
Mat3: 66					
Other Materials: DENSE					
Formation Top Depth: 0.00					
Formation End Depth: 15.00					
Formation End Depth UOM: ft					
<u>Annular Space/Abandonment</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Sealing Record</u>					
Plug ID:		1004041353			
Layer:		1			
Plug From:		2.00			
Plug To:		0.00			
Plug Depth UOM:		ft			
Plug ID:		1004041354			
Layer:		2			
Plug From:		15.00			
Plug To:		2.00			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004041352			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004041345			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004041349			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		15.00			
Depth To:		-2.50			
Casing Diameter:		2.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		1004041350			
Layer:		1			
Slot:		.01			
Screen Top Depth:		15.00			
Screen End Depth:		5.00			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2.00			
<u>Water Details</u>					
Water ID:		1004041348			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		2.00			
Water Found Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Hole Diameter</u>					
Hole ID:		1004041347			
Diameter:		65.00			
Depth From:		15.00			
Depth To:		0.00			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
<u>19</u>	1 of 1	N/219.4	283.7 / -12.21	lot 2 con 11 ON	WWIS
Well ID:	5731942			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	11/2/1995
Sec. Water Use:				Selected Flag:	1
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1583
Casing Material:				Form Version:	1
Audit No:	140621			Owner:	
Tag:				Street Name:	
Construction Method:				County:	SIMCOE
Elevation (m):				Municipality:	INNISFIL TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	002
Well Depth:				Concession:	11
Overburden/Bedrock:				Concession Name:	CON
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10409475			Spatial Status:	
DP2BR:				Cluster Kind:	
Code OB:	o			UTMRC:	5
Code OB Desc:	Overburden			UTMRC Desc:	margin of error : 100 m - 300 m
Open Hole:				Location Method:	gis
Elevation:	286.594177			Org CS:	
Elevrc:				Date Completed:	6/12/1995
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:	932396439				
Layer:	1				
Color:					
General Color:					
Mat1:	01				
Most Common Material:	FILL				
Mat2:	05				
Other Materials:	CLAY				
Mat3:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Other Materials:					
Formation Top Depth:		0.00			
Formation End Depth:		6.00			
Formation End Depth UOM:		ft			
Formation ID:		932396440			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		6.00			
Formation End Depth:		12.00			
Formation End Depth UOM:		ft			
Formation ID:		932396441			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		05			
Other Materials:		CLAY			
Mat3:		85			
Other Materials:		SOFT			
Formation Top Depth:		12.00			
Formation End Depth:		49.00			
Formation End Depth UOM:		ft			
Formation ID:		932396442			
Layer:		4			
Color:					
General Color:					
Mat1:		08			
Most Common Material:		FINE SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		49.00			
Formation End Depth:		100.00			
Formation End Depth UOM:		ft			
Formation ID:		932396443			
Layer:		5			
Color:		6			
General Color:		BROWN			
Mat1:		08			
Most Common Material:		FINE SAND			
Mat2:		63			
Other Materials:		COARSE-GRAINED			
Mat3:					
Other Materials:					
Formation Top Depth:		100.00			
Formation End Depth:		124.00			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933194532			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		1			
Plug From:		0.00			
Plug To:		20.00			
Plug Depth UOM:		ft			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		965731942			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10958045			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930664061			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		99.00			
Casing Diameter:		6.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
Casing ID:		930664062			
Layer:		2			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		99.00			
Casing Diameter:		5.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
 <u>Construction Record - Screen</u>					
Screen ID:		933378327			
Layer:		1			
Slot:		014			
Screen Top Depth:		99.00			
Screen End Depth:		103.00			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		6.00			
 <u>Results of Well Yield Testing</u>					
Pump Test ID:		995731942			
Pump Set At:					
Static Level:		72.00			
Final Level After Pumping:		85.00			
Recommended Pump Depth:		5.00			
Pumping Rate:		12.00			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flowing Rate:					
Recommended Pump Rate:		10.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		2			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934305993			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		72.00			
Test Level UOM:		ft			
Pump Test Detail ID:		934581304			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		72.00			
Test Level UOM:		ft			
Pump Test Detail ID:		934838515			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		72.00			
Test Level UOM:		ft			
Pump Test Detail ID:		935096632			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		72.00			
Test Level UOM:		ft			
<u>Water Details</u>					
Water ID:		933892015			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		123.00			
Water Found Depth UOM:		ft			
20	1 of 4	SE/225.1	310.9 / 14.95	Unilock Ltd 441 Salem Rd. Barrie ON L9J 0S8	GEN
Generator No.:		ON4653547		PO Box No.:	
Status:				Country:	Canada
Approval Years:		2014		Choice of Contact:	CO_ADMIN
Contam. Facility:		No		Co Admin:	Jamie Connor
MHSW Facility:		No		Phone No. Admin:	705-721-7800 Ext.227
SIC Code:		444190			
SIC Description:		OTHER BUILDING MATERIAL DEALERS			
<u>--Details--</u>					
Waste Code:		112			
Waste Description:		ACID WASTE - HEAVY METALS			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Code:		145			
Waste Description:		PAINT/PIGMENT/COATING RESIDUES			
Waste Code:		331			
Waste Description:		WASTE COMPRESSED GASES			
Waste Code:		232			
Waste Description:		POLYMERIC RESINS			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			

20	2 of 4	SE/225.1	310.9 / 14.95	Unilock Ltd 441 Salem Rd. Barrie ON L9J 0S8	GEN
Generator No.:	ON4653547			PO Box No.:	
Status:				Country:	Canada
Approval Years:	2016			Choice of Contact:	CO_ADMIN
Contam. Facility:	No			Co Admin:	Jamie Connor
MHSW Facility:	No			Phone No. Admin:	705-721-7800 Ext.227
SIC Code:	444190				
SIC Description:	OTHER BUILDING MATERIAL DEALERS				
--Details--					
Waste Code:	232				
Waste Description:	POLYMERIC RESINS				
Waste Code:	268				
Waste Description:	AMINES				
Waste Code:	252				
Waste Description:	WASTE OILS & LUBRICANTS				
Waste Code:	145				
Waste Description:	PAINT/PIGMENT/COATING RESIDUES				
Waste Code:	112				
Waste Description:	ACID WASTE - HEAVY METALS				
Waste Code:	331				
Waste Description:	WASTE COMPRESSED GASES				

20	3 of 4	SE/225.1	310.9 / 14.95	Unilock Ltd 441 Salem Rd. Barrie ON L9J 0S8	GEN
Generator No.:	ON4653547			PO Box No.:	
Status:	Registered			Country:	Canada
Approval Years:	As of Dec 2017			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:					
SIC Description:					
--Details--					
Waste Code:	252 L				
Waste Description:	Waste crankcase oils and lubricants				
Waste Code:	232 L				
Waste Description:	Polymeric resins				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Code:		268 C			
Waste Description:		Amines			
Waste Code:		112 C			
Waste Description:		Acid solutions - containing heavy metals			
Waste Code:		331 I			
Waste Description:		Waste compressed gases including cylinders			
Waste Code:		145 H			
Waste Description:		Wastes from the use of pigments, coatings and paints			
20	4 of 4	SE/225.1	310.9 / 14.95	Unilock Ltd 441 Salem Rd. Barrie ON L9J 0S8	GEN
Generator No.:	ON4653547			PO Box No.:	
Status:				Country:	Canada
Approval Years:	2015			Choice of Contact:	CO_ADMIN
Contam. Facility:	No			Co Admin:	Jamie Connor
MHSW Facility:	No			Phone No. Admin:	705-721-7800 Ext.227
SIC Code:	444190				
SIC Description:	OTHER BUILDING MATERIAL DEALERS				
--Details--					
Waste Code:	232				
Waste Description:	POLYMERIC RESINS				
Waste Code:	145				
Waste Description:	PAINT/PIGMENT/COATING RESIDUES				
Waste Code:	252				
Waste Description:	WASTE OILS & LUBRICANTS				
Waste Code:	331				
Waste Description:	WASTE COMPRESSED GASES				
Waste Code:	112				
Waste Description:	ACID WASTE - HEAVY METALS				
21	1 of 1	NW/232.1	276.9 / -19.05	ON	BORE
Borehole ID:	871065			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	Decommissioned
Drill Method::	Hand auger			UTM Zone::	17
Easting::	600898			Northing::	4908232
Location Accuracy::				Orig. Ground Elev m::	-999.9
Elev. Reliability Note::				DEM Ground Elev m::	280
Total Depth m::	4.6			Primary Name::	
Township::	INNISFIL			Concession::	
Lot::				Municipality:	
Completion Date::	15-JUL-1963			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	7029696			Top Depth(m):	0.0
Bottom Depth(m):	4.6			Stratum Desc:	Soft to hard clayey silt with fine to coarse sand

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	1 of 1	NW/233.7	276.9 / -19.05	ON	BORE
Borehole ID: 871066 Use: Geotechnical/Geological Investigation Drill Method:: Hand auger Easting:: 600913 Location Accuracy:: Elev. Reliability Note:: Total Depth m:: 3.5 Township:: INNISFIL Lot:: LOT 1 Completion Date:: 17-JUL-1963 Primary Water Use:: Type: Borehole Status:: Decommissioned UTM Zone:: 17 Northing:: 4908236 Orig. Ground Elev m:: -999.9 DEM Ground Elev m:: 279 Primary Name:: Concession:: CON 11 Municipality: Static Water Level:: -999.9 Sec. Water Use::					
--Details-- Stratum ID: 7029697 Bottom Depth(m): 3.5 Top Depth(m): 0.0 Stratum Desc: Soft to hard partially frozen clayey silt with fine to coarse sand.					
23	1 of 1	NNE/242.0	299.2 / 3.31	BARRIE DEVELOPMENT CORPORATION COLUMBIA RD.S./ATHABASKA RD. BARRIE CITY ON	CA
Certificate #: 3-0103-96- Application Year: 96 Issue Date: 4/1/1996 Approval Type: Municipal sewage Status: Approved Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
24	1 of 1	SE/242.0	310.9 / 14.95	lot 2 con 10 ON	WWIS
Well ID: 5715880 Construction Date: Primary Water Use: Industrial Sec. Water Use: 0 Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: 1 Date Received: 4/5/1979 Selected Flag: 1 Abandonment Rec: Contractor: 4816 Form Version: 1 Owner: Street Name: County: SIMCOE Municipality: INNISFIL TOWNSHIP Site Info: Lot: 002 Concession: 10 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Clear/Cloudy:					
<u>Bore Hole Information</u>					
Bore Hole ID:	10393585			Spatial Status:	
DP2BR:				Cluster Kind:	
Code OB:	0			UTMRC:	5
Code OB Desc:	Overburden			UTMRC Desc:	margin of error : 100 m - 300 m
Open Hole:				Location Method:	p5
Elevation:	310.529296			Org CS:	
Elevrc:				Date Completed:	1/31/1979
Remarks:					
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	932322118				
Layer:	1				
Color:					
General Color:					
Mat1:	28				
Most Common Material:	SAND				
Mat2:	11				
Other Materials:	GRAVEL				
Mat3:					
Other Materials:					
Formation Top Depth:	0.00				
Formation End Depth:	4.00				
Formation End Depth UOM:	ft				
Formation ID:	932322119				
Layer:	2				
Color:					
General Color:					
Mat1:	09				
Most Common Material:	MEDIUM SAND				
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:	4.00				
Formation End Depth:	15.00				
Formation End Depth UOM:	ft				
Formation ID:	932322120				
Layer:	3				
Color:					
General Color:					
Mat1:	05				
Most Common Material:	CLAY				
Mat2:	11				
Other Materials:	GRAVEL				
Mat3:	28				
Other Materials:	SAND				
Formation Top Depth:	15.00				
Formation End Depth:	52.00				
Formation End Depth UOM:	ft				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		932322121			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		52.00			
Formation End Depth:		99.00			
Formation End Depth UOM:		ft			
Formation ID:		932322122			
Layer:		5			
Color:					
General Color:					
Mat1:		08			
Most Common Material:		FINE SAND			
Mat2:					
Other Materials:					
Mat3:					
Other Materials:					
Formation Top Depth:		99.00			
Formation End Depth:		139.00			
Formation End Depth UOM:		ft			
Formation ID:		932322123			
Layer:		6			
Color:					
General Color:					
Mat1:		08			
Most Common Material:		FINE SAND			
Mat2:		06			
Other Materials:		SILT			
Mat3:					
Other Materials:					
Formation Top Depth:		139.00			
Formation End Depth:		155.00			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933187555			
Layer:		1			
Plug From:		139.00			
Plug To:		155.00			
Plug Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		965715880			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10942155			
Casing No:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Comment: Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930644146			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		134.00			
Casing Diameter:		6.00			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Screen</u>					
Screen ID:		933369897			
Layer:		1			
Slot:		018			
Screen Top Depth:		131.00			
Screen End Depth:		136.00			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		6.00			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		995715880			
Pump Set At:					
Static Level:		109.00			
Final Level After Pumping:					
Recommended Pump Depth:		130.00			
Pumping Rate:		5.00			
Flowing Rate:					
Recommended Pump Rate:		5.00			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		3			
Pumping Duration MIN:		0			
Flowing:		N			
<u>Water Details</u>					
Water ID:		933875768			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		130.00			
Water Found Depth UOM:		ft			
25	1 of 1	SE/242.6	310.9 / 14.95	Holcim (Canada) Inc. 4165 Salem Road West Innisfil Town ON L9S 3K9	ECA
Approval No:	4495-9FUQDY			MOE District:	
Approval Type:				SWP Area Name:	
Status:	Approved			Address:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Date: Record Type:	05-FEB-14			City: Longitude:	Innisfil Town - 79.72500000000000852651282912120223045 34912109375
Project Type:	Air/Noise			Latitude:	44.31388888888888288875023135915398597 71728515625
Link Source: Full Address: Full PDF Link:	4165 Salem Road West Innisfil Town, County of Simcoe L9S 3K9				
26	1 of 1	NW/243.9	276.9 / -19.02	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	871063 Geotechnical/Geological Investigation Hand auger 600881 4.3 ESSA LOT 25 16-JUL-1963			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole Decommissioned 17 4908241 -999.9 278 CON 11 -999.9
--Details-- Stratum ID: Bottom Depth(m):	7029694 4.3			Top Depth(m): Stratum Desc:	0.0 Soft to firm partially frozen, clayey silt with fine to coarse sand.
27	1 of 1	NW/244.2	276.9 / -19.05	ON	BORE
Borehole ID: Use: Drill Method:: Easting:: Location Accuracy:: Elev. Reliability Note:: Total Depth m:: Township:: Lot:: Completion Date:: Primary Water Use::	871064 Geotechnical/Geological Investigation Hand auger 600896 4.6 INNISFIL 15-JUL-1963			Type: Status:: UTM Zone:: Northing:: Orig. Ground Elev m:: DEM Ground Elev m:: Primary Name:: Concession:: Municipality: Static Water Level:: Sec. Water Use::	Borehole Decommissioned 17 4908244 -999.9 277 -999.9
--Details-- Stratum ID: Bottom Depth(m):	7029695 4.6			Top Depth(m): Stratum Desc:	0.0 Very soft to hard, partially frozen, clayey silt with fine to coarse sand.
28	1 of 12	SE/249.4	310.9 / 14.95	Holcim (Canada) Inc. 4165 Salem Rd W Innisfil ON L4K 5X6	ECA
Approval No: Approval Type: Status: Approval Date: Record Type:	4495-9FUQDY ECA-AIR Approved 2014-02-05 ECA			MOE District: SWP Area Name: Address: City: Longitude:	Barrie Nottawasaga Valley 4165 Salem Rd W Innisfil -79.72511

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Project Type:	AIR			Latitude:	44.314022
Link Source:	IDS				
Full Address:					
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/4657-7UNQQ4-14.pdf			

28	2 of 12	SE/249.4	310.9 / 14.95	CRH Canada Group Inc. 4165 Salem Rd. Innisfil ON L4M4S7	GEN
Generator No.:	ON5112908			PO Box No.:	
Status:				Country:	Canada
Approval Years:	2016			Choice of Contact:	CO_ADMIN
Contam. Facility:	No			Co Admin:	Elizabeth Lopes
MHSW Facility:	No			Phone No. Admin:	416 671 5137 Ext.
SIC Code:	327320				
SIC Description:	READY-MIX CONCRETE MANUFACTURING				
--Details--					
Waste Code:	221				
Waste Description:	LIGHT FUELS				
Waste Code:	251				
Waste Description:	OIL SKIMMINGS & SLUDGES				
Waste Code:	213				
Waste Description:	PETROLEUM DISTILLATES				
Waste Code:	212				
Waste Description:	ALIPHATIC SOLVENTS				
Waste Code:	146				
Waste Description:	OTHER SPECIFIED INORGANICS				
Waste Code:	252				
Waste Description:	WASTE OILS & LUBRICANTS				

28	3 of 12	SE/249.4	310.9 / 14.95	CRH Canada Group Inc. Dufferin Concrete 4165 Salem Rd. Innisfil ON L4M4S7	GEN
Generator No.:	ON5112908			PO Box No.:	
Status:	Registered			Country:	Canada
Approval Years:	As of Dec 2017			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No. Admin:	
SIC Code:					
SIC Description:					
--Details--					
Waste Code:	251 L				
Waste Description:	Waste oils/sludges (petroleum based)				
Waste Code:	212 L				
Waste Description:	Aliphatic solvents and residues				
Waste Code:	252 L				
Waste Description:	Waste crankcase oils and lubricants				
Waste Code:	213 L				
Waste Description:	Petroleum distillates				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Code:		146 L			
Waste Description:		Other specified inorganic sludges, slurries or solids			
28	4 of 12	SE/249.4	310.9 / 14.95	CRH Canada Group Inc. 4165 Salem Rd. Innisfil ON L4M4S7	GEN
Generator No.:		ON5112908		PO Box No.:	
Status:				Country: Canada	
Approval Years:		2015		Choice of Contact: CO_ADMIN	
Contam. Facility:		No		Co Admin: Elizabeth Lopes	
MHSW Facility:		No		Phone No. Admin: 416 671 5137 Ext.	
SIC Code:		327320			
SIC Description:		READY-MIX CONCRETE MANUFACTURING			
<u>--Details--</u>					
Waste Code:		221			
Waste Description:		LIGHT FUELS			
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			
Waste Code:		212			
Waste Description:		ALIPHATIC SOLVENTS			
Waste Code:		213			
Waste Description:		PETROLEUM DISTILLATES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
28	5 of 12	SE/249.4	310.9 / 14.95	Holcim (Canada) Inc. 4165 Salem Rd. Innisfil ON L4M4S7	GEN
Generator No.:		ON5112908		PO Box No.:	
Status:				Country: Canada	
Approval Years:		2014		Choice of Contact: CO_ADMIN	
Contam. Facility:		No		Co Admin: Maria Topalovic	
MHSW Facility:		No		Phone No. Admin: 905 532 3232 Ext.	
SIC Code:		327320			
SIC Description:		READY-MIX CONCRETE MANUFACTURING			
<u>--Details--</u>					
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		146			
Waste Description:		OTHER SPECIFIED INORGANICS			
Waste Code:		213			
Waste Description:		PETROLEUM DISTILLATES			
Waste Code:		212			
Waste Description:		ALIPHATIC SOLVENTS			
Waste Code:		251			
Waste Description:		OIL SKIMMINGS & SLUDGES			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Code: Waste Description:		221 LIGHT FUELS			
28	6 of 12	SE/249.4	310.9 / 14.95	Holcim (Canada) Inc. 4165 Salem Rd. Innisfil ON	GEN
Generator No.: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:		ON5112908 2013 327320 READY-MIX CONCRETE MANUFACTURING		PO Box No.: Country: Choice of Contact: Co Admin: Phone No. Admin:	
--Details--					
Waste Code: Waste Description:		212 ALIPHATIC SOLVENTS			
Waste Code: Waste Description:		146 OTHER SPECIFIED INORGANICS			
Waste Code: Waste Description:		251 OIL SKIMMINGS & SLUDGES			
Waste Code: Waste Description:		252 WASTE OILS & LUBRICANTS			
Waste Code: Waste Description:		221 LIGHT FUELS			
Waste Code: Waste Description:		213 PETROLEUM DISTILLATES			
28	7 of 12	SE/249.4	310.9 / 14.95	Holcim (Canada) Inc. 4165 Salem Rd. Innisfil ON L9S 3K9	GEN
Generator No.: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:		ON5112908 2012 327320 Ready-Mix Concrete Manufacturing		PO Box No.: Country: Choice of Contact: Co Admin: Phone No. Admin:	
--Details--					
Waste Code: Waste Description:		212 ALIPHATIC SOLVENTS			
Waste Code: Waste Description:		146 OTHER SPECIFIED INORGANICS			
Waste Code: Waste Description:		251 OIL SKIMMINGS & SLUDGES			
Waste Code: Waste Description:		213 PETROLEUM DISTILLATES			
Waste Code:		252			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Description:		WASTE OILS & LUBRICANTS			
Waste Code:		221			
Waste Description:		LIGHT FUELS			
28	8 of 12	SE/249.4	310.9 / 14.95	Ministry of Transportation 4165 Salem Road; South 1/2 of Lot 1, Concession 11 Town of Innisfil ON	LIMO
C of A No:		A252204		Site County:	Simcoe
C of A Issue Date:		5/31/1973		MOE Region:	Central
C of A Issued to:				MOE District:	Barrie
Operation Status:		Closed		Easting:	
Landfill Type:				Northing:	
Total Site Area:				Latitude:	
Footprint:				Longitude:	
Tot Apprvd Capac:				UTM Zone:	
Tot Aprv Cp Unit:				Data Source:	small landfills
Fill Rate:				Cntm Attn Zn:	
Fill Rate Unit:				Grndwtr Mntr:	
Est Remain Cap:				Surf Wtr Mntr:	
ERC Volume Unit:				Lst Rprting Yr:	
ERC Methodology:				Fin Assrnce:	
ERC Dt Last Det:				Nat Attnuatn:	
Total Waste Rec:				Liners:	
TWR Unit:				Cvr Material:	
TWR Methodology:					
Site Name:		Ministry of Transportation Holly Landfill			
Air Emmis Monitor:					
Leachate Off-Site:					
Leachate On Site:					
Landfill Gas Manag (P):					
Landfill Gas Manag (F):					
Landfill Gas Manag (E):					
Req Col Lndfil Gas:					
Lndfil Gas Clcted:					
Lndfil Gas Mntr:					
Service Area:					
Approved Waste Type:					
28	9 of 12	SE/249.4	310.9 / 14.95	DUFFERIN CONCRETE 4165 Salem Road Innisfil ON L9S3L1	NPRI
NPRI ID:		500131		Org ID:	102166
Other ID:				Submit Date:	5/25/2015
No Other ID:				Last Modified:	9/1/2015 3:09:32 PM
Track ID:		134528		Contact ID:	
Report ID:		54147		Cont Type:	
Report Type:		DNMC		Contact Title:	
Rpt Type ID:		2		Cont First Name:	
Report Year:		2014		Cont Last Name:	
Not-Current Rpt?:		No		Contact Position:	
Yr of Last Filed Rpt:				Contact Fax:	
Fac ID:		233015		Contact Ph.:	
Fac Name:		Dufferin Concrete, Innisfil Plant		Cont Area Code:	
Fac Address1:		4165 Salem Road		Contact Tel.:	
Fac Address2:				Contact Ext.:	
Fac Postal Zip:		L9S3L1		Cont Fax Area Cde:	
Facility Lat:		44.31429		Contact Fax:	
Facility Long:		-79.72364		Contact Email:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
DLS (Last Filed Rpt): Facility DLS: Datum: Facility Cmnts: URL: No of Empl.: Parent Co.: No Parent Co.: Pollut Prev Cmnts: Stacks: No of Stacks: Canadian SIC Code (2 digit): Canadian SIC Code: SIC Code Description: American SIC Code: NAICS Code (2 digit): NAICS 2 Description: NAICS Code (4 digit): NAICS 4 Description: NAICS Code (6 digit): NAICS 6 Description:					
Latitude: Longitude: UTM Zone: UTM Northing: UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown:					
28	10 of 12	SE/249.4	310.9 / 14.95	Dufferin Concrete 4165 West Salem Rd. Innisfil ON L4M4S7	NPRI
NPRI ID: 8800000024 Other ID: * No Other ID: Track ID: Report ID: Report Type: Rpt Type ID: Report Year: 2009 Not-Current Rpt?: Yr of Last Filed Rpt: Fac ID: Fac Name: Innisfil Plant Fac Address1: Fac Address2: Fac Postal Zip: Facility Lat: Facility Long: DLS (Last Filed Rpt): Facility DLS: Datum: Facility Cmnts: No URL: No of Empl.: 0 Parent Co.: * No Parent Co.: Pollut Prev Cmnts: No Stacks: No No of Stacks: Canadian SIC Code (2 digit): Canadian SIC Code: SIC Code Description: American SIC Code: NAICS Code (2 digit): NAICS 2 Description: NAICS Code (4 digit): NAICS 4 Description: NAICS Code (6 digit): NAICS 6 Description:					
Org ID: Submit Date: Last Modified: Contact ID: Cont Type: Contact Title: Cont First Name: Cont Last Name: Contact Position: Contact Fax: Contact Ph.: Cont Area Code: Contact Tel.: Contact Ext.: Cont Fax Area Cde: Contact Fax: Contact Email: Latitude: Longitude: UTM Zone: UTM Northing: UTM Easting: Waste Streams: No No Streams: Waste Off Sites: No No Off Sites: Shutdown: No No of Shutdown:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
28	11 of 12	SE/249.4	310.9 / 14.95	DUFFERIN CONCRETE 4165 Salem Road Innisfil ON L9S3L1	NPRI
NPRI ID: 500131				Org ID: 102166	
Other ID:				Submit Date: 5/29/2014	
No Other ID:				Last Modified: 7/24/2015 11:40:22 AM	
Track ID: 118440				Contact ID:	
Report ID: 37676				Cont Type:	
Report Type: DNMC				Contact Title:	
Rpt Type ID: 2				Cont First Name:	
Report Year: 2013				Cont Last Name:	
Not-Current Rpt?: Yes				Contact Position:	
Yr of Last Filed Rpt:				Contact Fax:	
Fac ID: 233015				Contact Ph.:	
Fac Name: Dufferin Concrete, Innisfil Plant				Cont Area Code:	
Fac Address1: 4165 Salem Road				Contact Tel.:	
Fac Address2:				Contact Ext.:	
Fac Postal Zip: L9S3L1				Cont Fax Area Cde:	
Facility Lat: 44.31429				Contact Fax:	
Facility Long: -79.72364				Contact Email:	
DLS (Last Filed Rpt):				Latitude:	
Facility DLS:				Longitude:	
Datum:				UTM Zone:	
Facility Cmnts:				UTM Northing:	
URL:				UTM Easting:	
No of Empl.:				Waste Streams:	
Parent Co.:				No Streams:	
No Parent Co.:				Waste Off Sites:	
Pollut Prev Cmnts:				No Off Sites:	
Stacks:				Shutdown:	
No of Stacks:				No of Shutdown:	
Canadian SIC Code (2 digit):					
Canadian SIC Code:					
SIC Code Description:					
American SIC Code:					
NAICS Code (2 digit): 32					
NAICS 2 Description: Manufacturing					
NAICS Code (4 digit): 3273					
NAICS 4 Description: Cement and concrete product manufacturing					
NAICS Code (6 digit): 327320					
NAICS 6 Description: Ready-mix concrete manufacturing					

28	12 of 12	SE/249.4	310.9 / 14.95	Dufferin Concrete a Division of CRH Canada Group Inc. 4165 Salem Road Innisfil ON L9S3L1	NPRI
NPRI ID: 500131				Org ID: 105857	
Other ID:				Submit Date: 5/26/2016	
No Other ID:				Last Modified: 11/18/2016 8:28:05 AM	
Track ID: 138653				Contact ID:	
Report ID: 72598				Cont Type:	
Report Type: DNMC				Contact Title:	
Rpt Type ID: 2				Cont First Name:	
Report Year: 2015				Cont Last Name:	
Not-Current Rpt?: No				Contact Position:	
Yr of Last Filed Rpt:				Contact Fax:	
Fac ID: 233015				Contact Ph.:	
Fac Name: Dufferin Concrete, Innisfil Plant				Cont Area Code:	
Fac Address1: 4165 Salem Road				Contact Tel.:	
Fac Address2:				Contact Ext.:	
Fac Postal Zip: L9S3L1				Cont Fax Area Cde:	
Facility Lat: 44.31429				Contact Fax:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Facility Long: DLS (Last Filed Rpt): Facility DLS: Datum: Facility Cmnts: URL: No of Empl.: Parent Co.: No Parent Co.: Pollut Prev Cmnts: Stacks: No of Stacks: Canadian SIC Code (2 digit): Canadian SIC Code: SIC Code Description: American SIC Code: NAICS Code (2 digit): NAICS 2 Description: NAICS Code (4 digit): NAICS 4 Description: NAICS Code (6 digit): NAICS 6 Description:	-79.72364			Contact Email: Latitude: Longitude: UTM Zone: UTM Northing: UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown:	
		32			
		Manufacturing			
		3273			
		Cement and concrete product manufacturing			
		327320			
		Ready-mix concrete manufacturing			

Unplottable Summary

Total: **34** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 25 Con 11	Innisfil ON	
CA	KALLEN PROPERTIES INC.	COUNTY RD. #27, PT.LOT 15/C-11	ESSA TWP. ON	
CA	KALLEN PROPERTIES INC.	COUNTY RD. #27,PT.LOT 15/C-11	ESSA TWP. ON	
GEN	CRH Canada Group Inc.	Bowman, St	Innisfil ON	L9S 0E9
GEN	CRH Canada Group Inc.	Bowman, St	Innisfil ON	L9S 0E9
GEN	Carillion Canada Inc.	Simcoe County Rd 27 Springwater Township	Simcoe ON	
GEN	TWD Roads Management Inc.	Simcoe County Rd 27 Springwater Township	Simcoe ON	
GEN	TWD Roads Management Inc.	Simcoe County Rd 27 Springwater Township	Simcoe ON	L4N 9B7
GEN	TWD Roads Management Inc.	Simcoe County Rd 27 Springwater Township	Simcoe ON	L4N 9B7
GEN	TWD Roads Management Inc.	Simcoe County Rd 27 Springwater Township	Simcoe ON	
GEN	Carillion Canada Inc.	Simcoe County Rd 27 Springwater Township	Simcoe ON	L4N 9B7
GEN	TWD Roads Management Inc.	Simcoe County Rd 27 Springwater Township	Simcoe ON	
GEN	UNILOCK LTD.	NORTH 1/2 OF LOT1,CON10 INNISFIL TWP C/O RR #5	BARRIE ON	L4M 4S7
GEN	UNILOCK LTD.	NORTH 1/2 OF LOT1,CON10 INNISFIL TWP	INNISFIL TWP. ON	L4M 4S7
GEN	UNILOCK LTD. 139	39- NORTH 1/2 OF LOT1,CON10 INNISFIL TWP C/O RR #5	BARRIE ON	L4M 4S7
GEN	UNILOCK LIMITED	NORTH 1/2 OF LOT 1, CONCESSION 10	INNISFIL TWP. ON	L4M 4S7
GEN	MINISTRY OF TRANSPORTATION	MTO CENTRAL REGION MULTIPLE GENERATING LOCATIONS	GTA/NIAGARA /DURHAM AREA ON	

GEN	MINISTRY OF TRANSPORTATION	MTO CENTRAL REGION MULTIPLE GENERATING LOCATIONS	GTA/NIAGARA /DURHAM AREA ON	MULTIPL
GEN	MINISTRY OF TRANSPORTATION	MTO CENTRAL REGION MULTIPLE GENERATING LOCATIONS	GTA/NIAGARA /DURHAM AREA ON	MULTIPL
GEN	MINISTRY OF TRANSPORTATION	MTO CENTRAL REGION MULTIPLE GENERATING LOCATIONS	GTA/NIAGARA /DURHAM AREA ON	MULTIPL
LIMO	Ministry of Transportation	South 1/2 of Lot 15, Concession 6	Town of Innisfil ON	
PTTW	St. Joseph Natural Clear Springwater Inc	Lot 2	Town of Innisfil ON	
PTTW	Saputo Cheese Ltd.	Lot 2	Town of Innisfil ON	
SPL	SERVICE STATION	CO-OP PETROLEUM, HWY. 27, 1 BLOCK NORTH OF HIGHWAY 89 (N.O.S.)	INNISFIL TOWN ON	
SPL	TRANSPORT TRUCK	COUNTY ROAD # 27, ABOUT 4 MILES NORTH OF COOKSTOWN. MOTOR VEHICLE (OPERATING FLUID)	INNISFIL TOWN ON	
SPL		HWY 27 SOUTH OF 89<UNOFFICIAL>	Innisfil ON	
SPL	SANDY COVE ACRES	LOT 25, CONC 10 & 11. SANITARY SEWER, LOT 25, CONC 10 & 11. INNISFIL TWP	INNISFIL TOWN ON	
SPL	SANDY COVE ACRES	LOT 25, CONC 10 & 11 SANITARY SEWER, LOT 25, CONC 10 & 11. INNISFIL TWP	INNISFIL TOWN ON	
SPL	MINISTRY OF TRANSPORTATION	MOT SAND CAMP	INNISFIL TOWN ON	
WWIS		lot 25	ON	
WWIS		lot 1 con 11	ON	
WWIS		lot 25	ON	
WWIS		lot 1	ON	
WWIS		lot 2	ON	

Unplottable Report

Site: Lot 25 Con 11 Innisfil ON

Database:
AAGR

Type: Pit
Region/County: Simcoe
Township: Innisfil
Concession:: 11
Lot:: 25
Size (ha):: 3
Landuse::
Comments::

Site: KALLEN PROPERTIES INC.
COUNTY RD. #27, PT.LOT 15/C-11 ESSA TWP. ON

Database:
CA

Certificate #: 3-0117-99-
Application Year: 99
Issue Date: 4/15/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: KALLEN PROPERTIES INC.
COUNTY RD. #27,PT.LOT 15/C-11 ESSA TWP. ON

Database:
CA

Certificate #: 7-0060-99-
Application Year: 99
Issue Date: 4/15/1999
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: CRH Canada Group Inc.
Bowman, St Innisfil ON L9S 0E9

Database:
GEN

Generator No.: ON4853703
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 324121, 237310

PO Box No.:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No. Admin:

SIC Description: ASPHALT PAVING MIXTURE AND BLOCK MANUFACTURING, HIGHWAY, STREET AND BRIDGE CONSTRUCTION

--Details--

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 241
Waste Description: HALOGENATED SOLVENTS

Site: CRH Canada Group Inc.
Bowman, St Innisfil ON L9S 0E9

Database:
GEN

Generator No.: ON4853703
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 324121, 237310
SIC Description: ASPHALT PAVING MIXTURE AND BLOCK MANUFACTURING, HIGHWAY, STREET AND BRIDGE CONSTRUCTION

PO Box No.:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No. Admin:

--Details--

Waste Code: 241
Waste Description: HALOGENATED SOLVENTS

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: Carillion Canada Inc.
Simcoe County Rd 27 Springwater Township Simcoe ON

Database:
GEN

Generator No.: ON5217921
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 488490
SIC Description: OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Site: TWD Roads Management Inc.
Simcoe County Rd 27 Springwater Township Simcoe ON

Database:
GEN

Generator No.: ON5217921
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 488490
SIC Description: Other Support Activities for Road Transportation

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: TWD Roads Management Inc.
Simcoe County Rd 27 Springwater Township Simcoe ON L4N 9B7

Database:
GEN

Generator No.: ON5217921
Status:
Approval Years: 05,06,07,08
Contam. Facility:
MHSW Facility:
SIC Code: 488490
SIC Description: Other Support Activities for Road Transportation

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: TWD Roads Management Inc.
Simcoe County Rd 27 Springwater Township Simcoe ON L4N 9B7

Database:
GEN

Generator No.: ON5217921
Status:
Approval Years: 04,07,08
Contam. Facility:
MHSW Facility:
SIC Code: 488490
SIC Description: Other Support Activities for Road Transportation

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

Site: TWD Roads Management Inc.
Simcoe County Rd 27 Springwater Township Simcoe ON

Database:
GEN

Generator No.: ON5217921
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 488490
SIC Description: Other Support Activities for Road Transportation

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: Carillion Canada Inc.
Simcoe County Rd 27 Springwater Township Simcoe ON L4N 9B7

Database:
GEN

Generator No.: ON5217921
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 488490
SIC Description: Other Support Activities for Road Transportation

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Site: TWD Roads Management Inc.
Simcoe County Rd 27 Springwater Township Simcoe ON

Database:
GEN

Generator No.: ON5217921
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 488490
SIC Description: Other Support Activities for Road Transportation

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Site: UNILOCK LTD.
NORTH 1/2 OF LOT1,CON10 INNISFIL TWP C/O RR #5 BARRIE ON L4M 4S7

Database:
GEN

Generator No.: ON0689000
Status:
Approval Years: 86,87,88,89,90
Contam. Facility:
MHSW Facility:
SIC Code: 3542
SIC Description: STRUCTURAL CONCRETE

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Site: UNILOCK LTD.
NORTH 1/2 OF LOT1,CON10 INNISFIL TWP INNISFIL TWP. ON L4M 4S7

Database:
GEN

Generator No.: ON0689000
Status:
Approval Years: 92,93,97,98
Contam. Facility:
MHSW Facility:
SIC Code: 3542
SIC Description: STRUCTURAL CONCRETE

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Site: UNILOCK LTD. 39-139
NORTH 1/2 OF LOT1,CON10 INNISFIL TWP C/O RR #5 BARRIE ON L4M 4S7

Database:
GEN

Generator No.: ON0689000
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 3542
SIC Description: STRUCTURAL CONCRETE

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Site: **UNILOCK LIMITED**
NORTH 1/2 OF LOT 1, CONCESSION 10 INNISFIL TWP. ON L4M 4S7

Database:
GEN

Generator No.: ON0689000
Status:
Approval Years: 99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 3542
SIC Description: STRUCTURAL CONCRETE

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--
Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Site: **MINISTRY OF TRANSPORTATION**
MTO CENTRAL REGION MULTIPLE GENERATING LOCATIONS GTA/NIAGARA /DURHAM AREA ON

Database:
GEN

Generator No.: ON0124208
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 912910
SIC Description: OTHER PROVINCIAL AND TERRITORIAL PUBLIC ADMINISTRATION

PO Box No.:
Country:
Choice of Contact:
Co Admin:
Phone No. Admin:

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 331
Waste Description: WASTE COMPRESSED GASES

Waste Code: 251
Waste Description: OIL SKIMMINGS & SLUDGES

Waste Code: 211
Waste Description: AROMATIC SOLVENTS

Waste Code: 262
Waste Description: DETERGENTS/SOAPS

Waste Code: 241
Waste Description: HALOGENATED SOLVENTS

Waste Code: 122
Waste Description: ALKALINE WASTES - OTHER METALS

Waste Code: 145
Waste Description: PAINT/PIGMENT/COATING RESIDUES

Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS
Waste Code:	222
Waste Description:	HEAVY FUELS
Waste Code:	232
Waste Description:	POLYMERIC RESINS
Waste Code:	243
Waste Description:	PCBS
Waste Code:	213
Waste Description:	PETROLEUM DISTILLATES
Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS
Waste Code:	221
Waste Description:	LIGHT FUELS
Waste Code:	112
Waste Description:	ACID WASTE - HEAVY METALS
Waste Code:	133
Waste Description:	BRINES, CHLOR-ALKALI WASTES
Waste Code:	113
Waste Description:	ACID WASTE - OTHER METALS
Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS

Site: MINISTRY OF TRANSPORTATION
MTO CENTRAL REGION MULTIPLE GENERATING LOCATIONS GTA/NIAGARA /DURHAM AREA ON MULTIPL

Database:
GEN

Generator No.:	ON0124208	PO Box No.:	
Status:		Country:	
Approval Years:	2010	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No. Admin:	
SIC Code:	912910		
SIC Description:	Other Provincial and Territorial Public Administration		

--Details--

Waste Code:	112
Waste Description:	ACID WASTE - HEAVY METALS
Waste Code:	331
Waste Description:	WASTE COMPRESSED GASES
Waste Code:	262
Waste Description:	DETERGENTS/SOAPS
Waste Code:	113
Waste Description:	ACID WASTE - OTHER METALS
Waste Code:	251
Waste Description:	OIL SKIMMINGS & SLUDGES
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS

Waste Code:	241
Waste Description:	HALOGENATED SOLVENTS
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
Waste Code:	213
Waste Description:	PETROLEUM DISTILLATES
Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS
Waste Code:	232
Waste Description:	POLYMERIC RESINS
Waste Code:	243
Waste Description:	PCBS
Waste Code:	222
Waste Description:	HEAVY FUELS
Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS
Waste Code:	122
Waste Description:	ALKALINE WASTES - OTHER METALS
Waste Code:	133
Waste Description:	BRINES, CHLOR-ALKALI WASTES
Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
Waste Code:	211
Waste Description:	AROMATIC SOLVENTS
Waste Code:	221
Waste Description:	LIGHT FUELS
Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS

Site: MINISTRY OF TRANSPORTATION
MTO CENTRAL REGION MULTIPLE GENERATING LOCATIONS GTA/NIAGARA /DURHAM AREA ON MULTIPL

Database:
GEN

Generator No.:	ON0124208	PO Box No.:	
Status:		Country:	
Approval Years:	2011	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No. Admin:	
SIC Code:	912910		
SIC Description:	Other Provincial and Territorial Public Administration		

--Details--

Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS
Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS
Waste Code:	112
Waste Description:	ACID WASTE - HEAVY METALS
Waste Code:	222
Waste Description:	HEAVY FUELS

Waste Code:	251
Waste Description:	OIL SKIMMINGS & SLUDGES
Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS
Waste Code:	221
Waste Description:	LIGHT FUELS
Waste Code:	122
Waste Description:	ALKALINE WASTES - OTHER METALS
Waste Code:	243
Waste Description:	PCBS
Waste Code:	113
Waste Description:	ACID WASTE - OTHER METALS
Waste Code:	213
Waste Description:	PETROLEUM DISTILLATES
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
Waste Code:	241
Waste Description:	HALOGENATED SOLVENTS
Waste Code:	331
Waste Description:	WASTE COMPRESSED GASES
Waste Code:	262
Waste Description:	DETERGENTS/SOAPS
Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
Waste Code:	133
Waste Description:	BRINES, CHLOR-ALKALI WASTES
Waste Code:	232
Waste Description:	POLYMERIC RESINS
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS
Waste Code:	211
Waste Description:	AROMATIC SOLVENTS

Site: MINISTRY OF TRANSPORTATION
MTO CENTRAL REGION MULTIPLE GENERATING LOCATIONS GTA/NIAGARA /DURHAM AREA ON MULTIPL

Database:
GEN

Generator No.:	ON0124208	PO Box No.:	
Status:		Country:	
Approval Years:	2012	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No. Admin:	
SIC Code:	912910		
SIC Description:	Other Provincial and Territorial Public Administration		

--Details--

Waste Code:	252
Waste Description:	WASTE OILS & LUBRICANTS
Waste Code:	146
Waste Description:	OTHER SPECIFIED INORGANICS

Waste Code:	262
Waste Description:	DETERGENTS/SOAPS
Waste Code:	212
Waste Description:	ALIPHATIC SOLVENTS
Waste Code:	222
Waste Description:	HEAVY FUELS
Waste Code:	243
Waste Description:	PCBS
Waste Code:	148
Waste Description:	INORGANIC LABORATORY CHEMICALS
Waste Code:	263
Waste Description:	ORGANIC LABORATORY CHEMICALS
Waste Code:	122
Waste Description:	ALKALINE WASTES - OTHER METALS
Waste Code:	331
Waste Description:	WASTE COMPRESSED GASES
Waste Code:	213
Waste Description:	PETROLEUM DISTILLATES
Waste Code:	145
Waste Description:	PAINT/PIGMENT/COATING RESIDUES
Waste Code:	241
Waste Description:	HALOGENATED SOLVENTS
Waste Code:	211
Waste Description:	AROMATIC SOLVENTS
Waste Code:	232
Waste Description:	POLYMERIC RESINS
Waste Code:	251
Waste Description:	OIL SKIMMINGS & SLUDGES
Waste Code:	112
Waste Description:	ACID WASTE - HEAVY METALS
Waste Code:	221
Waste Description:	LIGHT FUELS
Waste Code:	133
Waste Description:	BRINES, CHLOR-ALKALI WASTES
Waste Code:	113
Waste Description:	ACID WASTE - OTHER METALS

Site: Ministry of Transportation
South 1/2 of Lot 15, Concession 6 Town of Innisfil ON

Database:
[LIMO](#)

C of A No: A252203
C of A Issue Date: 5/31/1973
C of A Issued to:
Operation Status: Closed
Landfill Type:
Total Site Area:
Footprint:
Tot Apprvd Capac:
Tot Aprv Cp Unit:
Fill Rate:

Site County: Simcoe
MOE Region: Central
MOE District: Barrie
Easting:
Northing:
Latitude:
Longitude:
UTM Zone:
Data Source: small landfills
Cntm Attn Zn:

Fill Rate Unit:	Grndwtr Mntr:
Est Remain Cap:	Surf Wtr Mntr:
ERC Volume Unit:	Lst Rprting Yr:
ERC Methodology:	Fin Assrnce:
ERC Dt Last Det:	Nat Attnuatn:
Total Waste Rec:	Liners:
TWR Unit:	Cvr Material:
TWR Methodology:	
Site Name:	Ministry of Transportation Innisfil Roadside Landfill
Air Emmis Monitor:	
Leachate Off-Site:	
Leachate On Site:	
Landfill Gas Manag (P):	
Landfill Gas Manag (F):	
Landfill Gas Manag (E):	
Req Col Lndfil Gas:	
Lndfil Gas Cllected:	
Lndfil Gas Mntr:	
Service Area:	
Approved Waste Type:	

Site: St. Joseph Natural Clear Springwater Inc
Lot 2 Town of Innisfil ON

Database:
[PTTW](#)

EBR Registry No.:	IA9E1311
Ministry Ref. No.:	
Year:	1999
Proposal Date:	
Notice Date:	
Notice Type:	Instrument
Proponent Address:	St. Joseph Natural Clear Springwater Inc.219 Rosemount Ave.,Toronto, Ontario, M6H 2H2
Instrument Type:	OWRA s. 34 - Permit to take water
Location:	Town of Innisfil
Location Other:	Lot 2, Concession 10

Site: Saputo Cheese Ltd.
Lot 2 Town of Innisfil ON

Database:
[PTTW](#)

EBR Registry No.:	IA8E1369
Ministry Ref. No.:	
Year:	1998
Proposal Date:	10/5/98
Notice Date:	
Notice Type:	Instrument
Proponent Address:	Saputo Cheese Ltd.R.R. # 1,Cookstown, Ontario, L0L 1L0
Instrument Type:	OWRA s. 34 - Permit to take water
Location:	Town of Innisfil
Location Other:	Lot 2, Concession 4

Site: SERVICE STATION
CO-OP PETROLEUM, HWY. 27, 1 BLOCK NORTH OF HIGHWAY 89 (N.O.S.) INNISFIL TOWN ON

Database:
[SPL](#)

Ref No:	76667	Sector Type:	
Contaminant Name:		Source Type:	
Contaminant Code:		Receiving Medium:	LAND
Contaminant Limit 1:		Receiving Env:	
Contam Limit Freq 1:		Environment Impact:	CONFIRMED
Contaminant UN No 1:		Nature of Impact:	Soil contamination
Contaminant Qty:		SAC Action Class:	
Material Group:		Year:	
MOE Reported Dt:	9/23/1992	Site Address:	
Health/Env Conseq:		Site Conc:	
Incident Dt:	9/23/1992	Site Lot:	
Incident Cause:	UNKNOWN	Site County/District:	

Incident Event:
Incident Reason: UNKNOWN
Incident Summary: CO-OP PETROLEUM - 200 CU. YRDS
SOIL CONTAMINATED WITH FUEL.

Site Municipality: 70409
Site Postal Code:

Site: **TRANSPORT TRUCK**
COUNTY ROAD # 27, ABOUT 4 MILES NORTH OF COOKSTOWN. MOTOR VEHICLE (OPERATING FLUID) INNISFIL
TOWN ON

Database:
SPL

Ref No: 162782
Contaminant Name:
Contaminant Code:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Material Group:
MOE Reported Dt: 12/9/1998
Health/Env Conseq:
Incident Dt: 12/9/1998
Incident Cause: OTHER TRANSPORTATION ACCIDENT
Incident Event:
Incident Reason: OTHER
Incident Summary: GIBSON TRANSPORT- 150 L DIESEL TO
DITCH, CONTAINED, CLEANING.

Sector Type:
Source Type:
Receiving Medium: LAND
Receiving Env:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
SAC Action Class:
Year:
Site Address:
Site Conc:
Site Lot:
Site County/District:
Site Municipality: 70409
Site Postal Code:

Site: **HWY 27 SOUTH OF 89<UNOFFICIAL> Innisfil ON**

Database:
SPL

Ref No: 1067-5SBQA9
Contaminant Name: HYDRAULIC OIL
Contaminant Code: 15
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 91 L
Material Group: Oil
MOE Reported Dt: 10/14/2003
Health/Env Conseq:
Incident Dt: 10/14/2003
Incident Cause: Other Transport Accident
Incident Event:
Incident Reason: Unknown - Reason not determined
Incident Summary: Hwy 27 Innisfil - hydraulic oil spill

Sector Type: Transport Truck
Source Type:
Receiving Medium: Water
Receiving Env:
Environment Impact: Possible
Nature of Impact: Surface Water Pollution
SAC Action Class: Spills
Year:
Site Address:
Site Conc:
Site Lot:
Site County/District:
Site Municipality: Innisfil
Site Postal Code:

Site: **SANDY COVE ACRES**
LOT 25, CONC 10 & 11. SANITARY SEWER, LOT 25, CONC 10 & 11. INNISFIL TWP INNISFIL TOWN ON

Database:
SPL

Ref No: 109631
Contaminant Name:
Contaminant Code:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty:
Material Group:
MOE Reported Dt: 1/30/1995
Health/Env Conseq:
Incident Dt: 1/30/1995
Incident Cause: CONTAINER OVERFLOW
Incident Event:
Incident Reason: EQUIPMENT FAILURE
Incident Summary: SANDY COVE ACRES-
MANHOLEOVERFLOW, SMALL QUANTITY

Sector Type:
Source Type:
Receiving Medium: LAND
Receiving Env:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
SAC Action Class:
Year:
Site Address:
Site Conc:
Site Lot:
Site County/District:
Site Municipality: 70409
Site Postal Code:

Site: SANDY COVE ACRES
LOT 25, CONC 10 & 11 SANITARY SEWER, LOT 25, CONC 10 & 11. INNISFIL TWP INNISFIL TOWN ON

Database:
SPL

Ref No:	131743	Sector Type:	
Contaminant Name:		Source Type:	
Contaminant Code:		Receiving Medium:	LAND
Contaminant Limit 1:		Receiving Env:	
Contam Limit Freq 1:		Environment Impact:	NOT ANTICIPATED
Contaminant UN No 1:		Nature of Impact:	
Contaminant Qty:		SAC Action Class:	
Material Group:		Year:	
MOE Reported Dt:	9/12/1996	Site Address:	
Health/Env Conseq:		Site Conc:	
Incident Dt:	9/12/1996	Site Lot:	
Incident Cause:	PIPE/HOSE LEAK	Site County/District:	
Incident Event:		Site Municipality:	70409
Incident Reason:	UNKNOWN	Site Postal Code:	
Incident Summary:	SANDY COVE ACRES-25 L RAWSEWAGE TO LAWN,BLOCKED LINE,LINE CLEARED.		

Site: MINISTRY OF TRANSPORTATION
MOT SAND CAMP INNISFIL TOWN ON

Database:
SPL

Ref No:	28507	Sector Type:	
Contaminant Name:		Source Type:	
Contaminant Code:		Receiving Medium:	LAND
Contaminant Limit 1:		Receiving Env:	
Contam Limit Freq 1:		Environment Impact:	
Contaminant UN No 1:		Nature of Impact:	
Contaminant Qty:		SAC Action Class:	
Material Group:		Year:	
MOE Reported Dt:	11/30/1989	Site Address:	
Health/Env Conseq:		Site Conc:	
Incident Dt:	11/30/1989	Site Lot:	
Incident Cause:	UNKNOWN	Site County/District:	
Incident Event:		Site Municipality:	70409
Incident Reason:	UNKNOWN	Site Postal Code:	
Incident Summary:	BACKENTRY-MOT-50-500 L DIESEL FUEL SPILLED. CLEANED.		

Site: lot 25 ON

Database:
WWIS

Well ID:	5724081	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	11/2/1988
Sec. Water Use:		Selected Flag:	1
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	2514
Casing Material:		Form Version:	1
Audit No:	41270	Owner:	
Tag:		Street Name:	
Construction Method:		County:	SIMCOE
Elevation (m):		Municipality:	INNISFIL TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	025
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	

Clear/Cloudy:

Bore Hole Information

Bore Hole ID: 10401686
DP2BR: 254
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Spatial Status:
Cluster Kind:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na
Org CS:
Date Completed: 8/24/1988

Overburden and Bedrock

Materials Interval

Formation ID: 932358370
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0.00
Formation End Depth: 201.00
Formation End Depth UOM: ft

Formation ID: 932358371
Layer: 2
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 05
Other Materials: CLAY
Formation Top Depth: 201.00
Formation End Depth: 208.00
Formation End Depth UOM: ft

Formation ID: 932358372
Layer: 3
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 208.00
Formation End Depth: 254.00
Formation End Depth UOM: ft

Formation ID: 932358373
Layer: 4
Color: 2

General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 254.00
Formation End Depth: 260.00
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933189214
Layer: 1
Plug From: 15.00
Plug To: 20.00
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 965724081
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10950256
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930654488
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 201.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933373929
Layer: 1
Slot: 010
Screen Top Depth: 201.00
Screen End Depth: 207.00
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 6.00

Results of Well Yield Testing

Pump Test ID: 995724081
Pump Set At:
Static Level: 5.00

Final Level After Pumping: 195.00
Recommended Pump Depth: 195.00
Pumping Rate: 5.00
Flowing Rate:
Recommended Pump Rate: 4.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 10
Pumping Duration MIN: 30
Flowing: N

Water Details

Water ID: 933883913
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 201.00
Water Found Depth UOM: ft

Site:
lot 1 con 11 ON

Database:
WWIS

Well ID:	5740408	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Domestic	Date Received:	12/23/2005
Sec. Water Use:		Selected Flag:	1
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	7074
Casing Material:		Form Version:	3
Audit No:	Z24618	Owner:	
Tag:	A023925	Street Name:	1107 CREUMERY RD
Construction Method:		County:	SIMCOE
Elevation (m):		Municipality:	57000
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	001
Well Depth:		Concession:	11
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	11325904	Spatial Status:	
DP2BR:		Cluster Kind:	
Code OB:	0	UTMRC:	
Code OB Desc:	Overburden	UTMRC Desc:	
Open Hole:		Location Method:	na
Elevation:		Org CS:	
Elevrc:		Date Completed:	11/5/2005
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID: 933030939
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Other Materials: SAND
Mat3: 12
Other Materials: STONES
Formation Top Depth: 0.00
Formation End Depth: 10.00
Formation End Depth UOM: ft

Formation ID: 933030940
Layer: 2
Color: 6
General Color: BROWN
Mat1: 10
Most Common Material: COARSE SAND
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 10.00
Formation End Depth: 74.00
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933283920
Layer: 1
Plug From: 0.00
Plug To: 26.00
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 965740408
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 11340759
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930870119
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 0.00
Depth To: 60.00
Casing Diameter: 6.25
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930870120
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: 56.00
Depth To: 67.00
Casing Diameter: 5.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933416165
Layer: 1
Slot: 16
Screen Top Depth: 67.00
Screen End Depth: 74.00
Screen Material: 1
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 5.00

Results of Well Yield Testing

Pump Test ID: 11352339
Pump Set At: 60.00
Static Level: 39.00
Final Level After Pumping: 50.00
Recommended Pump Depth: 65.00
Pumping Rate: 10.00
Flowing Rate:
Recommended Pump Rate: 10.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 11512870
Test Type: Draw Down
Test Duration: 1
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512860
Test Type: Recovery
Test Duration: 1
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512879
Test Type: Draw Down
Test Duration: 2
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512878
Test Type: Recovery
Test Duration: 2
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512876
Test Type: Draw Down
Test Duration: 3
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512875
Test Type: Recovery
Test Duration: 3
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512874
Test Type: Draw Down
Test Duration: 4
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512873
Test Type: Recovery
Test Duration: 4
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512871
Test Type: Recovery
Test Duration: 5
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512872
Test Type: Draw Down
Test Duration: 5
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512869
Test Type: Draw Down
Test Duration: 10
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512867
Test Type: Recovery
Test Duration: 10
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512862
Test Type: Draw Down
Test Duration: 15
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512854
Test Type: Recovery
Test Duration: 15
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512855
Test Type: Draw Down
Test Duration: 20
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512856
Test Type: Recovery

Test Duration: 20
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512857
Test Type: Draw Down
Test Duration: 25
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512858
Test Type: Recovery
Test Duration: 25
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512868
Test Type: Recovery
Test Duration: 30
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512866
Test Type: Draw Down
Test Duration: 30
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512864
Test Type: Recovery
Test Duration: 40
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512863
Test Type: Draw Down
Test Duration: 40
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512865
Test Type: Draw Down
Test Duration: 50
Test Level: 50.00
Test Level UOM: ft

Pump Test Detail ID: 11512859
Test Type: Recovery
Test Duration: 50
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512877
Test Type: Recovery
Test Duration: 60
Test Level: 39.00
Test Level UOM: ft

Pump Test Detail ID: 11512861
Test Type: Draw Down
Test Duration: 60
Test Level: 50.00
Test Level UOM: ft

Water Details

Water ID: 934069205
Layer: 1

Kind Code: 1
Kind: FRESH
Water Found Depth: 74.00
Water Found Depth UOM: ft

Site:
lot 25 ON

Database:
[WWIS](#)

Well ID:	5723596	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	8/22/1988
Sec. Water Use:		Selected Flag:	1
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	2513
Casing Material:		Form Version:	1
Audit No:	34468	Owner:	
Tag:		Street Name:	
Construction Method:		County:	SIMCOE
Elevation (m):		Municipality:	INNISFIL TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	025
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10401206	Spatial Status:	
DP2BR:	185	Cluster Kind:	
Code OB:	r	UTMRC:	9
Code OB Desc:	Bedrock	UTMRC Desc:	unknown UTM
Open Hole:		Location Method:	na
Elevation:		Org CS:	
Elevrc:		Date Completed:	7/18/1988
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID:	932356178
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0.00
Formation End Depth:	1.00
Formation End Depth UOM:	ft
Formation ID:	932356179
Layer:	2
Color:	6

General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Other Materials: SAND
Mat3:
Other Materials:
Formation Top Depth: 1.00
Formation End Depth: 9.00
Formation End Depth UOM: ft

Formation ID: 932356180
Layer: 3
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Other Materials: SAND
Mat3: 13
Other Materials: BOULDERS
Formation Top Depth: 9.00
Formation End Depth: 185.00
Formation End Depth UOM: ft

Formation ID: 932356181
Layer: 4
Color:
General Color:
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 10
Other Materials: COARSE SAND
Mat3:
Other Materials:
Formation Top Depth: 185.00
Formation End Depth: 188.00
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933188934
Layer: 1
Plug From: 0.00
Plug To: 7.00
Plug Depth UOM: ft

Plug ID: 933188935
Layer: 2
Plug From: 7.00
Plug To: 10.00
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 965723596
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10949776
Casing No: 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930653876
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 185.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933373669
Layer: 1
Slot: 018
Screen Top Depth: 185.00
Screen End Depth: 188.00
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 6.00

Results of Well Yield Testing

Pump Test ID: 995723596
Pump Set At:
Static Level: 3.00
Final Level After Pumping: 127.00
Recommended Pump Depth: 130.00
Pumping Rate: 10.00
Flowing Rate:
Recommended Pump Rate: 10.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 30
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934306759
Test Type: Draw Down
Test Duration: 15
Test Level: 127.00
Test Level UOM: ft

Pump Test Detail ID: 934582471
Test Type: Draw Down
Test Duration: 30
Test Level: 127.00
Test Level UOM: ft

Pump Test Detail ID: 934839872
Test Type: Draw Down
Test Duration: 45
Test Level: 127.00
Test Level UOM: ft

Pump Test Detail ID: 935097903
Test Type: Draw Down
Test Duration: 60
Test Level: 127.00
Test Level UOM: ft

Water Details

Water ID: 933883419
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 185.00
Water Found Depth UOM: ft

Site:

lot 1 ON

Database:
[WWIS](#)

Well ID:	5729535	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	9/9/1992
Sec. Water Use:		Selected Flag:	1
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	5224
Casing Material:		Form Version:	1
Audit No:	121820	Owner:	
Tag:		Street Name:	
Construction Method:		County:	SIMCOE
Elevation (m):		Municipality:	INDIAN RESERVE RAMA 32
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	001
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10407106	Spatial Status:	
DP2BR:		Cluster Kind:	
Code OB:	0	UTMRC:	9
Code OB Desc:	Overburden	UTMRC Desc:	unknown UTM
Open Hole:		Location Method:	na
Elevation:		Org CS:	
Elevrc:		Date Completed:	8/17/1992
Remarks:			
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 932384344
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY

Mat2: 13
Other Materials: BOULDERS
Mat3:
Other Materials:
Formation Top Depth: 0.00
Formation End Depth: 30.00
Formation End Depth UOM: ft

Formation ID: 932384345
Layer: 2
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 30.00
Formation End Depth: 40.00
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 965729535
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10955676
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930661181
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 40.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 995729535
Pump Set At:
Static Level: 19.00
Final Level After Pumping: 40.00
Recommended Pump Depth: 39.00
Pumping Rate: 3.00
Flowing Rate:
Recommended Pump Rate: 3.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2

Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934306508
Test Type:
Test Duration: 15
Test Level: 19.00
Test Level UOM: ft

Pump Test Detail ID: 934582264
Test Type:
Test Duration: 30
Test Level: 19.00
Test Level UOM: ft

Pump Test Detail ID: 934839504
Test Type:
Test Duration: 45
Test Level: 19.00
Test Level UOM: ft

Pump Test Detail ID: 935097621
Test Type:
Test Duration: 60
Test Level: 19.00
Test Level UOM: ft

Water Details

Water ID: 933889612
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.00
Water Found Depth UOM: ft

Site:

lot 2 ON

Database:
[WWIS](#)

Well ID: 5733892
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 125256
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 12/8/1998
Selected Flag: 1
Abandonment Rec:
Contractor: 1312
Form Version: 1
Owner:
Street Name:
County: SIMCOE
Municipality: INNISFIL TOWNSHIP
Site Info:
Lot: 002
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10411424
DP2BR:

Spatial Status:
Cluster Kind:

Code OB: 0
Code OB Desc: Overburden
Open Hole:
Elevation:
Elevrc:
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na
Org CS:
Date Completed: 7/1/1998

Overburden and Bedrock
Materials Interval

Formation ID: 932406073
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 0.00
Formation End Depth: 18.00
Formation End Depth UOM: ft

Formation ID: 932406074
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 18.00
Formation End Depth: 60.00
Formation End Depth UOM: ft

Formation ID: 932406075
Layer: 3
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 60.00
Formation End Depth: 70.00
Formation End Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 965733892
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10959994
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930666551
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 67.00
Casing Diameter: 6.00
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933379513
Layer: 1
Slot: 006
Screen Top Depth: 67.00
Screen End Depth: 70.00
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 6.00

Results of Well Yield Testing

Pump Test ID: 995733892
Pump Set At:
Static Level: 12.00
Final Level After Pumping: 50.00
Recommended Pump Depth: 55.00
Pumping Rate: 10.00
Flowing Rate:
Recommended Pump Rate: 10.00
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934321627
Test Type: Draw Down
Test Duration: 15
Test Level: 12.00
Test Level UOM: ft

Pump Test Detail ID: 934578674
Test Type: Draw Down
Test Duration: 30
Test Level: 12.00
Test Level UOM: ft

Pump Test Detail ID: 934844217

Test Type: Draw Down
Test Duration: 45
Test Level: 12.00
Test Level UOM: ft

Pump Test Detail ID: 935102791
Test Type: Draw Down
Test Duration: 60
Test Level: 12.00
Test Level UOM: ft

Water Details

Water ID: 933894038
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 67.00
Water Found Depth UOM: ft

Appendix: Database Descriptions

*Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. **Note:** Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2017

Abandoned Mine Information System:

Provincial [AMIS](#)

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Nov 2016

Anderson's Waste Disposal Sites:

Private [ANDR](#)

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies:

Private [AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Jan 31, 2018

Borehole:

Provincial [BORE](#)

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2014

Certificates of Approval:

Provincial [CA](#)

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks:

Provincial

CFOT

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

Government Publication Date: Feb 28, 2017

Chemical Register:

Private

CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2018

Compressed Natural Gas Stations:

Private

CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 31, 2012

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial

COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial

CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Nov 2017

Certificates of Property Use:

Provincial

CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Oct 2017

Drill Hole Database:

Provincial

DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886-Nov 30, 2017

Environmental Activity and Sector Registry:

Provincial

EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Jan 31, 2018

Environmental Registry:

Provincial

EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Oct 2017

Environmental Compliance Approval:

Provincial

ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Jan 31, 2018

Environmental Effects Monitoring:

Federal

EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private

EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Feb 28, 2018

Environmental Issues Inventory System:

Federal

EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

List of TSSA Expired Facilities:

Provincial

EXP

List of facilities with removed tanks which were once registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Feb 28, 2017

Federal Convictions:

Federal

FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government.

Government Publication Date: Jun 2000-Dec 2017

Fisheries & Oceans Fuel Tanks:

Federal

FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2017

Fuel Storage Tank:

Provincial

FST

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic:

Provincial

FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-December 31, 2017

Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO₂ eq).

Government Publication Date: 2013-Dec 2015

TSSA Historic Incidents:

Provincial

HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

TSSA Incidents:

Provincial

INC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Dec 31, 2013

Canadian Mine Locations:

Private

MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2017

National Analysis of Trends in Emergencies System (NATES):

Federal

NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2016

National Defense & Canadian Forces Fuel Tanks:

Federal

NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Aug 2010

National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

NEBI

Locations of pipeline incidents from 2008 to present, made available by the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Dec 31, 2017

National Energy Board Wells:

Federal

NEBW

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003***National PCB Inventory:**

Federal

NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008***National Pollutant Release Inventory:**

Federal

NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017**Oil and Gas Wells:**

Private

OGW

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-December 31, 2017**Ontario Oil and Gas Wells:**

Provincial

OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Oct 2017**Inventory of PCB Storage Sites:**

Provincial

OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013**Orders:**

Provincial

ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Oct 2017**Canadian Pulp and Paper:**

Private

PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009**Parks Canada Fuel Storage Tanks:**

Federal

PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: 1988-Aug 2017

TSSA Pipeline Incidents:

Provincial PINC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks:

Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Oct 2017

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Nov 2017

Retail Fuel Storage Tanks:

Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Jan 31, 2018

Scott's Manufacturing Directory:

Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Sep 2017

Wastewater Discharger Registration Database:

Provincial

SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2016

Anderson's Storage Tanks:

Private

TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal

TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970-Aug 2017

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial

VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory:

Provincial

WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERI's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Jan 31, 2018

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERI's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial

WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Mar 31, 2017

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.



GeoPro Consulting Limited

Geotechnical-Hydrogeology-Environmental-Materials-Inspection

APPENDIX D

Ministry of the Environment
 Freedom of Information and Protection of Privacy Office
 40 St. Clair Avenue West, 12th Floor
 Toronto, ON M4V 1M2
 Tel: 416-314-4075
 Fax: 416-314-4285



Use this form to request records that are in the Ministry's files on environmental concerns related to properties.
 Please refer to the guide on the completion and use of this form. Our fax no. is 416- 314-4285.

Requester Data			For Ministry Use Only	
Name, Title, Company Name and Mailing Address of Requester Maria Benitez GeoPro Consulting Limited Unit 57, 40 Vogell Road, Richmond Hill, ON L4B 3N6 Email Address: geotech@geoproconsulting.ca			FOI Request No.	Date Request Received
			Fee Paid ☐ CHQ ☒ VISA/MC/AMEX ☐ CASH/MONEY ORDER	
Tel: 905-237-8336 Fax: 905-248-3699	Your Project/ Reference No. 17-2099GE	Signature of Requester	☐ CNR ☐ ER ☐ NOR ☐ SWR ☐ WCR ☐ IEB ☐ EAA ☐ EMR ☐ SCB ☐ SDW	
Request Parameters				
Municipal Address/Lot, Concession, Geographic Township (Municipal address mandatory for cities, towns or regions) 8001 Simcoe County Road 27, Barrie, ON (Lot Number 1 Concession Number 11 Township Innisfil)				
Present Property Owner(s) and Date(s) of Ownership				
Previous Property Owner(s) and Date(s) of Ownership				
Present/Previous Tenant(s) (if applicable)				
Search Parameters Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.			Specify Year(s) Requested	
Environmental concerns (General correspondence, occurrence reports, abatement)			All years	
Orders			All years	
Spills			All years	
Investigations/prosecutions ▶ <i>Owner and tenant information must be provided</i>			All years	
Waste Generator number/classes			All years	
Certificates of Approval ▶ Proponent information must be provided and Certificates of Approval number(s) (if known). 1985 and prior records are searched manually. Search fees in excess of \$300.00 may be incurred, depending on the types and years of records to be searched. If supporting documents are also required, mark SD box.				
			SD	Specify Year(s) Requested
Air - emissions			X	All years
Renewable Energy			X	All years
Water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)			X	All years
Sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations			X	All years
Waste water - industrial discharge			X	All years
Waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites			X	All years
Waste systems	- haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, PCB destruction		X	All years

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

Ministère de l'Environnement et de
l'Action en matière de changement
climatique

Bureau de l'accès à l'information et
de la protection de la vie privée

12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télec.: (416) 314-4285



April 16, 2018

Maria Benitez
GeoPro Consulting Limited
40 Vogell Road, Unit 57
Richmond Hill, ON L4B 3N6

Dear Maria Benitez:

RE: **Freedom of Information and Protection of Privacy Act Request**
Our File # A-2018-02492, Your Reference 17-2099GE

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

The search is being conducted on the following: 8001 Simcoe County Road 27, Barrie. If there is any discrepancy please contact us immediately.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search, copying and preparation time.

If you have any questions regarding this matter, please contact Jennifer Lee at jennifer.lee7@ontario.ca.

Yours truly,

ORIGINAL SIGNED BY

Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

Ministère de l'Environnement et de
l'Action en matière de changement
climatique

Bureau de l'accès à l'information et
de la protection de la vie privée

12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Téléc.: (416) 314-4285



May 15, 2018

Maria Benitez
GeoPro Consulting Limited
40 Vogell Road, Unit 57
Richmond Hill, ON L4B 3N6

Dear Maria Benitez:

RE: **Freedom of Information and Protection of Privacy Act Request**
Our File # A-2018-02492, Your Reference 17-2099GE

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 8001 Simcoe County Road 27, Barrie.

After a thorough search through the files of the Ministry's Barrie District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, **no records were located** responsive to your request. To provide you with this response and in accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, the fee owed is \$30.00 for 1 hour of search time @ \$30.00 per hour. **We have applied the \$30.00 for this request from your initial payment.**

To conduct a search through the files of the Environmental Assessment and Permissions Branch requires an additional 8 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Assessment and Permissions Branch (EAPB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$240.00. **As EAPB may have filed approval records by the proponent of the approval (current/former property owner/tenants of the property) rather than the site address, you will be required to provide all current/former property owner/tenant names for the search years you requested in your application when submitting payment for this search.** Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Assessment and Permissions Branch, the time for answering your request will be extended for an additional 30 days.

When remitting payment please quote our file number or attach a copy of this letter.

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Biraveena Pathmasiri at Biraveena.Pathmasiri4@ontario.ca.

Yours truly,



Janet Dadufalza
FOI Manager



Geotech Group <geotech@geoproconsulting.ca>

TSSA record search for ten (10) properties around 8001 County Rd 27, Barrie, ON (Lot 1 Con 11 Township Innisfil) P17-2099GE

Geotech Group <geotech@geoproconsulting.ca>

Thu, Mar 29, 2018 at 3:20 PM

To: publicinformation@tssa.org, Kaiying Qiu <kai@geoproconsulting.ca>, Hannal Lei <hannahl@geoproconsulting.ca>, Sally Liu <sally@geoproconsulting.ca>

Good afternoon,

Could you please conduct a search for any record for:

- 1) 8001 County Road 27, Barrie (Lot 1 Cos 11 Township Innisfil)
- 2) 8029 County Rd 27, Barrie (Lot 1 Con 11 Township Innisfil)
- 3) 7983 Simcoe County Rd 27, Barrie, ON L9J
- 4) 500 Salem Road, Barrie (Lot 1 Con 11 Township Innisfil)
- 5) 450 Salem Road, Barrie (Lot 2 Con 11 Township Innisfil)
- 6) 851 Salem Road, Barrie (Lot 2 Con 11 Township Innisfil)
- 7) 7816 Simcoe County Rd 27, Barrie, ON L9J
- 8) 7752 Simcoe County Rd 27, Barrie, ON L9J
- 9) 24 Selkirk Crescent, Barrie, ON L4N 8G3
- 10) 71 Lougheed Rd, Barrie, ON L4N 8G1

Thank you,

Best regards,

Maria B.

GeoPro Consulting Limited

T: (905) 237 8336 F: (905) 248 3699
geotech@geoproconsulting.ca

Material Testing & Inspection Hotline: (416) 655 1008

Professional, Proficient, Proactive

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Geotech Group <geotech@geoproconsulting.ca>

TSSA record search for ten (10) properties around 8001 County Rd 27, Barrie, ON (Lot 1 Con 11 Township Innisfil) P17-2099GE

Public Information Services <publicinformationservices@tssa.org>

Mon, Apr 2, 2018 at 7:56 AM

To: Geotech Group <geotech@geoproconsulting.ca>

Hello ,

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationservices@tssa.org or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Thank you and have a great day,

Sherees

From: Geotech Group [mailto:geotech@geoproconsulting.ca]

Sent: March 29, 2018 4:06 PM

To: Public Information Services <publicinformationservices@tssa.org>

Subject: Re: TSSA record search for ten (10) properties around 8001 [County Rd 27, Barrie, ON \(Lot 1 Con 11 Township Innisfil\)](#) P17-2099GE

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APPENDIX E

Water Well Records

Tuesday, April 17, 2018

12:38:38 PM

TOWNSHIP CON LOT	UTM	DATE CNTR	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION
ESSA TOWNSHIP 11 024	17 600885 4907776 W	2007/11 5528	35.4			NU		7053919 (Z48268) A	
ESSA TOWNSHIP CON 11 023	17 600964 4907373 W	1985/05 3660	5	FR 0144	122/125/10/2:0	DO	0147 3	5720021 ()	BLCK LOAM 0001 BRWN SAND 0010 GREY CLAY SAND 0055 BLUE CLAY 0096 BRWN SAND 0144 MSND WBRG 0151
INNISFIL TOWNSHIP	17 601597 4907569 W	2007/08 6809	2		///:	MO		7048667 (Z63332) A059618	BRWN SAND GRVL 0045 GREY SAND SILT DNSE 0080 GREY SILT CLAY 0084
INNISFIL TOWNSHIP CON 10 001	17 601564 4907473 W	1973/10 4608	30	FR 0015	13///0:30	DO		5710487 ()	LOAM 0001 SAND 0005 GREY CLAY 0028
INNISFIL TOWNSHIP CON 10 002	17 601664 4907473 W	1979/01 4816	6	FR 0130	109//5/3:0	IN	0131 5	5715880 ()	SAND GRVL 0004 MSND 0015 CLAY GRVL SAND 0052 GREY CLAY 0099 FSND 0139 FSND SILT 0155
INNISFIL TOWNSHIP CON 11 001	17 601495 4907891 W	2011/10 7190	2	UT 0013		MO	0025 10	7176146 (Z133895) A076094	BRWN FSND 0015 GREY FSND 0025
INNISFIL TOWNSHIP CON 11 001	17 601232 4908083 L	1988/09 2662	6	UK 0235	107/225/10/3:15	DO	0236 3	5723994 (29976)	BRWN SAND 0018 GREY CLAY SNDY 0120 BRWN SAND DRY 0190 GREY CLAY SNDY WBRG 0235 GREY SAND 0239
INNISFIL TOWNSHIP CON 11 001	17 601033 4908169 W	1988/09 2662	6	UK 0145	60/140/10/3:20	DO	0146 4	5723993 (29982)	BRWN CLAY 0049 BRWN SAND 0091 GREY CLAY SNDY 0145 GREY SAND 0150
INNISFIL TOWNSHIP CON 11 001	17 601232 4908083 L	1988/08 2662	6	UK 0234	108/225/10/4:0	DO	0235 4	5723814 (29977)	BRWN SAND 0014 GREY CLAY SNDY 0090 BRWN SAND DRY 0170 GREY CLAY SNDY 0238
INNISFIL TOWNSHIP CON 11 001	17 601204 4907447 W	1987/04 2514	6 5	FR 0175	104/160/9/:		0177 3	5722089 (06628)	BLCK LOAM 0001 YLLW SAND 0015 YLLW SAND CLAY LYRD 0055 GREY CLAY STNS 0105 YLLW SAND CLAY 0155 GREY CLAY SAND 0175 YLLW SAND 0180
INNISFIL TOWNSHIP CON 11 001	17 601114 4907423 W	1978/05 4608	30	FR 0008	9///:	DO		5715823 ()	SAND 0017
INNISFIL TOWNSHIP CON 11 001	17 601064 4907503 W	1972/01 1204	5	FR 0049	12/36/2/6:0	DO		5708744 ()	BRWN FILL 0004 GREY SILT SAND 0030 GREY CLAY 0049

TOWNSHIP CON LOT	UTM	DATE CNTR	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION
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Notes:

UTM: UTM in Zone, Easting, Northing and Datum is NAD83; L: UTM estimated from Centroid of Lot; W: UTM not from Lot Centroid

DATE CNTR: Date Work Completedand Well Contractor Licence Number

CASING DIA: Casing diameter in inches

WATER: Unit of Depth in Fee. See Table 4 for Meaning of Code

PUMP TEST: Static Water Level in Feet / Water Level After Pumping in Feet / Pump Test Rate in GPM / Pump Test Duration in Hour : Minutes

WELL USE: See Table 3 for Meaning of Code

SCREEN: Screen Depth and Length in feet

WELL: WEL (AUDIT #) Well Tag . A: Abandonment; P: Partial Data Entry Only

FORMATION: See Table 1 and 2 for Meaning of Code

1. Core Material and Descriptive terms

Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
BLDR	BOULDERS	FCRD	FRACTURED	IRFM	IRON FORMATION	PORS	POROUS	SOFT	SOFT
BSLT	BASALT	FGRD	FINE-GRAINED	LIMY	LIMY	PRDG	PREVIOUSLY DUG	SPST	SOAPSTONE
CGRD	COARSE-GRAINED	FGVL	FINE GRAVEL	LMSN	LIMESTONE	PRDR	PREV. DRILLED	STKY	STICKY
CGVL	COARSE GRAVEL	FILL	FILL	LOAM	TOPSOIL	QRTZ	QUARTZITE	STNS	STONES
CHRT	CHERT	FLDS	FELDSPAR	LOOS	LOOSE	QSND	QUICKSAND	STNY	STONEY
CLAY	CLAY	FLNT	FLINT	LTCL	LIGHT-COLOURED	QTZ	QUARTZ	THIK	THICK
CLN	CLEAN	FOSS	FOSILIFEROUS	LYRD	LAYERED	ROCK	ROCK	THIN	THIN
CLYY	CLAYEY	FSND	FINE SAND	MARL	MARL	SAND	SAND	TILL	TILL
CMTD	CEMENTED	GNIS	GNEISS	MGRD	MEDIUM-GRAINED	SHLE	SHALE	UNKN	UNKNOWN TYPE
CONG	CONGLOMERATE	GRNT	GRANITE	MGVL	MEDIUM GRAVEL	SHLY	SHALY	VERY	VERY
CRYS	CRYSTALLINE	GRSN	GREENSTONE	MRBL	MARBLE	SHRP	SHARP	WBRG	WATER-BEARING
CSND	COARSE SAND	GRVL	GRAVEL	MSND	MEDIUM SAND	SHST	SCHIST	WDFR	WOOD FRAGMENTS
DKCL	DARK-COLOURED	GRWK	GREYWACKE	MUCK	MUCK	SILT	SILT	WTHD	WEATHERED
DLMT	DOLOMITE	GVLV	GRAVELLY	OBDN	OVERBURDEN	SLTE	SLATE		
DNSE	DENSE	GYPG	GYPGUM	PCKD	PACKED	SLTY	SILTY		
DRTY	DIRTY	HARD	HARD	PEAT	PEAT	SNDS	SANDSTONE		
DRY	DRY	HPAN	HARDPAN	PGVL	PEA GRAVEL	SNDY	SANDYOAPSTONE		

2. Core Color

Code	Description
WHIT	WHITE
GREY	GREY
BLUE	BLUE
GREN	GREEN
YLLW	YELLOW
BRWN	BROWN
RED	RED
BLCK	BLACK
BLGY	BLUE-GREY

3. Well Use

Code	Description	Code	Description
DO	Domestic	OT	Other
ST	Livestock	TH	Test Hole
IR	Irrigation	DE	Dewatering
IN	Industrial	MO	Monitoring
CO	Commercial	MT	Monitoring TestHole
MN	Municipal		
PS	Public		
AC	Cooling And A/C		
NU	Not Used		

4. Water Detail

Code	Description	Code	Description
FR	Fresh	GS	Gas
SA	Salty	IR	Iron
SU	Sulphur		
MN	Mineral		
UK	Unknown		



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APPENDIX F



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**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT
INTERVIEW QUESTIONNAIRE**

Date: July 30, 2018

Site Location/Address: Part of the South Half of Lot 1, Concession 11 (Geographic Township of Innisfil),
County of Simcoe; Parts 1, 2, and 3 Plan 51R-35542

Personnel Interviewed: **Rob Henry**

Contact Information

Email:

Phone Number:

- Years of working/living on the site: **Farming the land for 15 years**

- Briefly describe the site and site operations:

Size of the Property: +/- 27 hectares

Size of Footing Area: Not applicable.

Year of Building(s) constructed: Not applicable.

Nature of the business: Agricultural crop farming.

Current Property Owner, and date of ownership: Di Poce (Innisfil) Inc. (July 31, 2007)

Previous Property Owner: Equity Corp.

Current/Previous tenants: Not applicable.

- What is the property land use?

Current: Agricultural crop cultivation.



Future/Proposed: Residential development.

- Any chemicals were used or stored on site? Where? **Round Up**

- Do you know any chemical spills that occurred on the property? If yes, what chemicals were involved? where and when did it (they) happen? How were they cleaned up?

NONE

- How is waste water handled/stored/disposed on site? through city sanitary sewer system?

Natural infiltration and overland flow.

- Were there any landfills/dumps/soil fill on site?

No.

- How are the solid wastes disposed of and where?

Not applicable.

- Are/were there any underground or above ground storage tanks on the property? If yes, where?

No

- Are/were there any fluid-filled transformers or other electrical equipment on the property? Where? Any reports available for PCB content tested?

No

- Are/were there any water wells located on site? where?

No

- What is the source of drinking water?

Not applicable.

- What is the heating/air conditioning system for the building(s)?

Not applicable.

- Are you aware of any lead paint, asbestos or urea foam insulation using for the building(s)?



Not applicable.

- Are/were there any equipment maintenance/manufacturing/processing activities occurring on site?

No.

- Are /were there any hazardous wastes generated on site? Do you have a waste generator number?

No.

- Are you aware of any fires that happened on the property?

No.

- Are/were there any environmental issues/problems relating to the site, such as civic, criminal, or administrative proceedings or fines?

No.

- Have there been any occupational health and safety inspections conducted by regulatory agencies?
Any findings?

No.

- Are there any building /site drawings available for review?

No existing buildings exist. Proposed development concept plans are available.

- Do you know any geotechnical or environmental investigations taking place on the site? any reports available for review?

D-4 Landfill Impact Assessment (2010).

- Do you have other contacts who you think can provide more information on the property?

No



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APPENDIX G

Phase One Property



Photo 1. View of the north boundary of the Phase One Property (looking northeast).



Photo 2. View of southwest boundary of the Phase One Property (looking southwest).



Photo 3. View of wood area at the Phase One Property (looking south).



Photo 4. View of east side of the Phase One Property (looking northeast).



Photo 5. View of northeast side of the Phase One Property (looking northeast).



Photo 6. Overview of southeast side of the Phase One Property (looking southeast).



Photo 7. View of area with fill material in the east boundary of the Phase One Property (looking east).



Photo 8. View of a pile of fill material on the east side of the Phase One Property (looking northwest).



Photo 9. View of creek located in the west side of the Phase One Property.



Photo 10. View from the north boundary of the Site (looking west). The arrow indicates the location of the culvert observed.



Photo 11. View of the culvert located in the northwest side of the Phase One Property.



Photo 12. View of an excavation at the west side of the Phase One Property.



Photo 13. View the yellow flags showing the gas pipeline from Trans Canada Corporation that crosses the Phase One Property from north to south.



Photo 14. View of the southwest boundary of the Phase One Property (looking northeast).

Phase One Study Area



Photo 15. View of the north adjacent properties to the Phase One Property. Residential houses along Selkirk Crescent and Loughheed Road (looking southeast).



Photo 16. View of the south adjacent property to the Phase One Property. Residential house at 500 Salem Road (looking northwest).



Photo 17. View of the west adjacent property to the Phase One Property. Residential house at 8029 County Road 27 (looking southeast).



Photo 18. View of the west adjacent properties to the Phase One Property. Properties for agricultural or other use (looking west).



Photo 19. View of the east adjacent properties to the Phase One Property. Property for agricultural or other use (looking east).



Photo 20. View of concrete plant located in the southeast portion of the Phase One Study Area at 4165 Salem Road (looking southeast).



Photo 21. View vacant land, which used to be a landfill in the southeast portion of the Phase One Study Area at Lot 1 Con 11 (looking north).



Photo 22. View of the oil storage tank located in the south portion of the Phase One Study Area at 500 Salem Road (looking north).



Photo 23. View of the oil storage tank located in the southwest portion of the Phase One Study Area at 7975 County Road 27 (looking southeast).



Photo 24. View of the water well located in the south portion of the Phase One Study Area at 508 Salem Road (looking north).



Photo 25. View of Bear Creek located in the north portion of the Phase One Study Area (looking south).

LIMITATIONS TO THE REPORT

This report has been prepared in accordance with local generally accepted professional practices and procedures at the time of the assessment within the scope of Phase One Environmental Site Assessments under O. Reg. 153/04 as amended and is subject to the terms, conditions and limitations set out in our approved proposal prepared based on our understanding of the project requirements. As such, the assessment does not include any sampling or testing for potential contaminants such as asbestos, PCBs, radon gas, or airborne pollutants, etc.

This report utilizes scientific principles, professional judgement and subjective interpretations. This report herein comprises a statement of professional opinion based on visual observations, interviews and readily available documents only and the reader is advised that not all conditions that affect environmental compliance can be revealed by visual observations, interviews and readily searched documents.

Moreover, in the event that GeoPro has been granted authorization to use data and/or information obtained from previous third party investigation reports prepared by other consultants we make no warranty as to its accuracy or completeness and understand it to be factual and correct. As such, GeoPro does not guarantee the accuracy of said data prepared by others.

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The material in this report reflects our best judgment based on the information readily available to GeoPro Consulting Limited at the time of preparing this report. Any uses which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. GeoPro accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report unless we are specifically advised of and participate in such action, in which case our responsibility will be as agreed to at that time.

The information provided in this report may not be sufficient to obtain approval for disposal of excess soil or materials generated during construction. Occupancy use, codes, rules, and procedures change rapidly with time in the environmental engineering field and the reader is advised to update the findings and recommendations on a regular basis.