



Phase One Environmental Site Assessment 1568 Meadowbrook Road, Ottawa, Ontario

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Phase One Environmental Site Assessment
1568 Meadowbrook Road, Ottawa, Ontario
OTT-21019403-A0
November 16, 2021*

Legal Notification

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Executive Summary

EXP Services Inc. (EXP) was retained by Nemorin Group Limited to complete a Phase One Environmental Site Assessment (ESA) of the property located at 1568 Meadowbrook Road, Ottawa, Ontario hereinafter referred to as the 'Phase One property'. At the time of the investigation, the Phase One property consisted of a vacant, two-storey residential building.

A Phase One ESA is a systematic qualitative process to assess the environmental condition of a site based on its historical and current uses. This Phase One ESA was conducted in accordance with the Phase One ESA standard as defined by Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices.

The purpose of this Phase One ESA is to determine if past or present site activities have resulted in actual or potential contamination at the Phase One property. It is understood that the report will be used to support a site plan application with the City of Ottawa. EXP understands that the most recent use of the Phase One property is residential (R1 zoning) and that the proposed future use will be also be residential. It is proposed that a four two-storey, single-family residential buildings be constructed on the property and that the current house on the property will be removed.

The Phase One property is located at 1568 Meadowbrook Road in Ottawa, Ontario. The Phase One property is located within a residential area on the south side of Meadowbrook Road and has an area of approximately 0.14 hectares. The Phase One property has the property identification number (PIN) 043590054. The legal description of the Phase One property is PT LT 22, CON 20F, AS IN CT109302; S/T GL81584 GLOUCESTER.

Based on a review of historical aerial photographs, and other records review, it appears the subject site was first developed as a residential property circa 1976. Prior to the development of the building, the Site was used for agricultural purposes.

There are no water bodies on the subject site. The closest body of water is an unnamed water source tributary to Green's Creek approximately 330 m to the east. Topographically, the Phase One property is relatively flat. Based on local topography, the groundwater flow at the Phase One property is anticipated to be southeast towards Green's Creek.

There are no areas of natural or scientific interest (ANSI) within the Phase One study area.

The APEC and PCA are described below:

Table EX.1: Areas of Potential Environmental Concern

Area of Potential Environmental Concern (APEC)	Location of APEC on Phase One Property	Potentially Contaminating Activity (PCA)	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil and/or Sediment)
APEC #1	Entire Phase One property	PCA#30 – Imported Fill Material of Unknown Quality	On-Site	BTEX, PHC, metals, PAH	Soil

The Qualified Person can confirm that the Phase One Environmental Site Assessment was conducted per the requirements of Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices.

The Qualified Person who oversaw this work, Mark McCalla, P.Geo., recommends that a Phase Two ESA be conducted to address the PCA that may have adversely affected the APEC on the Phase One property.

This executive summary is a brief synopsis of the report and should not be read in lieu of reading the report in its entirety.

1.0 Introduction

EXP Services Inc. (EXP) was retained by Nemorin Group Limited to complete a Phase One Environmental Site Assessment (ESA) of the property located at 1568 Meadowbrook Road, Ottawa, Ontario hereinafter referred to as the 'Phase One property'. At the time of the investigation, the Phase One property consisted of a vacant, one-storey residential building with full basement.

A Phase One ESA is a systematic qualitative process to assess the environmental condition of a site based on its historical and current uses. This Phase One ESA was conducted in accordance with the Phase One ESA standard as defined by Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices. Subject to this standard of care, EXP makes no express or implied warranties regarding its services and no third-party beneficiaries are intended. Limitation of liability, scope of report and third-party reliance are outlined in Section 9 of this report.

Please note that general environmental management and housekeeping practices were reviewed as part of this assessment insofar as they could impact the environmental condition of the property, however, a detailed review of regulatory compliance issues was beyond the scope of our investigation. This Phase One ESA does not constitute an audit of environmental management practices, indicate geotechnical conditions or identify geologic hazards.

1.1 Objective

The purpose of this Phase One ESA is to determine if past or present site activities have resulted in actual or potential contamination at the Phase One property. It is understood that the report will be used to support a site plan application with the City of Ottawa.

EXP understands that the most recent use of the Phase One property is residential (R1 zoning) and that the proposed future use will be also be residential. It is proposed that a four two-storey, single-family residential buildings be constructed on the property and that the current house on the property will be removed.

EXP personnel who conducted assessment work for this project included Mark McCalla, P.Geo., and Eve Nadeau-Labadie, EIT. An outline of their qualifications is provided in Appendix A.

1.2 Phase One Property Information

The Phase One property is located at 1568 Meadowbrook Road in Ottawa, Ontario. The Phase One property is located within a residential area on the south side of Meadowbrook Road and has an area of approximately 0.14 hectares. The Site consists of a one-storey residential dwelling with a full basement. A paved driveway and detached single-car garage are present on the east side of the property.

The Phase One property has the property identification number (PIN) 043590054. The legal description of the Phase One property is PT LT 22, CON 2OF, AS IN CT109302; S/T GL81584 GLOUCESTER.

A Site Location Plan is provided as Figure 1 and a Site Plan is provided as Figure 2 in Appendix C.

The approximate Universal Transverse Mercator (UTM) coordinates for the Phase One property centroid are Zone 18, 452460 m E and 5030325 m N. The UTM coordinates are based on measurements from Google Earth Pro, published by the Google Limited Liability Company (LLC). The accuracy of the centroid is estimated to be less than 10 m.

The Site will be owned on November 5th, 2021 by Mr. Saël Nemorin. Authorization to proceed with this investigation was provided by Mr. Nemorin. Contact information for Mr. Nemorin is 100-135 Laurier Avenue West, Ottawa, Ontario, K1P 5J2.

2.0 Scope of Investigation

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

- Reviewing the historical occupancy of the Phase One property through the use of available archived and relevant municipal and business directories, fire insurance plans (FIPs), topographical maps, and aerial photographs;
- Reviewing municipal and provincial records to determine whether activities that have occurred within the Phase One study area pose a potential environmental concern to the Phase One property;
- Obtaining an EcoLog Environmental Risk Information Services Ltd. (ERIS) report for the Phase One property and surrounding properties within a 250-metre radius of the Phase One property;
- Reviewing available geological maps, well records and utility maps for the vicinity of the Phase One property;
- Obtaining a search of land title and assessment rolls for the Phase One property;
- Conducting at least one reconnaissance of the Phase One property and surrounding properties within a 250-metre radius of the Phase One property in order to identify the presence of actual and/or potential environmental contaminants or concerns of significance;
- Conducting interviews with designated representative(s) as a resource for current and historical information;
- Reviewing the current use of the Phase One property and any land use practices that may have impacted its environmental condition;
- Reviewing the current use of the surrounding properties and any land use practices that may have impacted the environmental condition of the Phase One property; and,
- Preparing a report to document the findings.

In completing the scope of work, EXP did not conduct any intrusive investigations, including sampling, analyses, or monitoring. EXP has confirmed neither the completeness nor the accuracy of any of the records that were obtained or of any of the statements made by others.

3.0 Records Review

3.1 Phase One ESA Study Area Determination

The Phase One study area comprises the Phase One property and surrounding properties wholly or partly within 250 metres of the property boundaries. The 250-metre radius was used to gain an understanding of the current and past uses of surrounding properties to determine whether such uses may have contributed to subsurface environmental impacts at the Phase One property. At the time of the site reconnaissance, land usage within 250 metres of the Site was residential and parkland to the south and north and residential to the east and west.

The property is currently zoned for residential (R1 WW) use. The surrounding properties in the Phase One study area are zoned primarily for residential use with the exception of the parklands.

The Phase One study area is shown on Figure 3 in Appendix C.

3.2 First Developed Use Determination

Based on a review of historical aerial photographs, and other records review, it appears the subject site was first developed as a residence circa 1976.

3.3 Fire Insurance Plans

A search of The Catalogue of Canadian Fire Insurance Plans 1875-1975 (Catalogue) determined no fire insurance plans (FIPs) exist for the Site.

3.4 Chain of Title

A chain of title was requested from Read Abstracts Limited for the Phase One property. As of the date of this report, no response has been received.

3.5 City Directories

On October 13, 2021, records pertaining to the site were requested from the EcoLog Environmental Risk Information Services (or EcoLog ERIS) for the municipal street directories in the Phase One study area. EcoLog ERIS is an environmental database and information service provider.

As a result of the COVID-19 pandemic, the government has closed various institutions which severely limits EXP's ability to access government libraries and archives and prepare a detailed historical search of the Site and surrounding areas, as such the city directories available for review were not available at this time.

3.6 Environmental Reports

No previous environmental reports pertaining to the Phase One property were available for review.

3.7 Environmental Source Information

Information pertaining to the Phase One property was obtained by reviewing documents that are available to the public through municipal and provincial sources. EXP did not identify the need to contact any federal agencies.

Written responses from regulatory agencies and copies of documents obtained via searches are provided in Appendix D.

3.7.1 Ontario Ministry of the Environment, Conservation and Parks Records

On October 13, 2021, records pertaining to the Phase One property were requested from the Ministry of the Environment, Conservation and Parks (MECP) through the *Freedom of Information and Protection of Privacy Act* (FOI). To date, no response has been received. If environmentally significant information is obtained from the MECP search, it will be provided as an addendum to this report.

3.7.2 Historical Land Use Inventory

An HLUI request was made to the City of Ottawa October 13, 2021. No response has yet been received. A copy of the request is provided in Appendix C.

3.7.3 Environmental Registry

On October 19, 2021, the MECP Environmental Registry website was searched for postings in the vicinity of the Phase One property, no records were found.

3.7.4 Environmental Access

On October 19, 2021 the MECP Environmental Access website was searched for postings within the Phase One study area, no records were found.

3.7.5 Hazardous Waste Information Network

On October 19, 2021, the MECP Hazardous Waste Information Network (HWIN) website was searched for registered waste generators within the Phase One study area, no records were found.

3.7.6 Records of Site Condition

On October 19, 2021, the MECP Brownfields Registry website was searched for postings of Records of Site Condition within the Phase One study area. No records were found.

3.7.7 Coal Gasification Plants

Documents entitled *Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario* prepared by the MECP and *Inventory of Coal Gasification Plant Waste Sites in Ontario* prepared by Intera Technologies Ltd. were reviewed. There were no coal gasification plants identified within the Phase One study area.

3.7.8 PCB Storage Sites

Documents entitled *National Inventory of PCBs in Use and PCB Wastes in Storage in Canada, 2003 Annual Report* prepared by Environment Canada and *Ontario Inventory of PCB Storage Sites* prepared by the MECP were reviewed. No records pertaining to PCB storage sites were identified within the Phase One study area.

3.7.9 Waste Disposal Sites

Documents entitled *Old Landfill Management Strategy, Phase 1, Identification of Sites, City of Ottawa, Ontario* prepared by Golder Associates Ltd. and *Waste Disposal Site Inventory* prepared by the MECP were reviewed. No former landfills or waste disposal sites were identified within the Phase One study area.

3.7.10 Former Industrial Sites

The document entitled *Mapping and Assessment of Former Industrial Sites; City of Ottawa* prepared by Intera Inc. was reviewed. No former industrial sites were identified within the Phase One study area.

3.8 EcoLog ERIS Database Search

A search of provincial and federal databases for records pertaining to the Phase One property and properties within the Phase One study area was conducted by EcoLog ERIS. EXP has confirmed neither the completeness nor the accuracy of the records that were provided. A summary of the more significant findings is provided below. A copy of the EcoLog ERIS report is provided in Appendix E.

Entries from the EcoLog ERIS report were reviewed and summarized below:

Location	Proximity to the Site	Description	Database	Environmental Concern to Site (Yes/No) & Rationale
Meadowbrook Road at Cedarcroft Crescent	200m west	On August 19, 2014, 45L of tar spilled to catch basin.	SPL	No, due to distance from the Site and minor nature of the spill.
1390 Cedarcroft Crescent	249m northwest	Asgo Management Corp. registered waste generator of undefined waste from 1986 to 1994.	GEN	No, due to distance from the Site.
Unknown location on Cedarcroft St	Unknown	On September 17, 1994, 20L of gasoline spilled to road, reported cleaned.	SPL	No, spill was reported cleaned ip.

Databases:

GEN – Ontario Regulation 347 Waste Generators Summary

SPL – Ontario Spills

- The Certificate of Approval database identified three entries for municipal sewage work at Aurele Street/ Meadowbrook Road, Maxine Street/Meadowbrook Road and Meadowbrook Road Outlet & Pond;
- The Ontario Spills database and Pipeline Incidents database identified five records in the study area for natural gas leaks. As natural gas dissipates rapidly, the pipeline stikes are unlikely to pose an environmental concern to the Phase One property.
- There were 8 records found in the Water Well Information System (WWIS) database for the Phase One study area. All of the records were for domestic wells.
- The Scott Manufacturing Directory database found one record in the study area for other textile printing. The record belongs to a residential property, which is unlikely to pose an environmental concern to the Phase One property.

Based on the review of the ERIS report, none of the records reviewed pose a concern to the Site.

3.9 Physical Setting Sources

3.9.1 Aerial Photographs

Aerial photographs dated 1958, 1965, 1976, 1991, 1999, 2002, 2007, 2014, 2017 and 2019 were available for review on the City of Ottawa website. Aerial photographs dated prior to 1958 were not available for review. The following table summarizes the development and land use history of the Phase One property and adjacent properties as depicted on the reviewed aerial photographs. Copies of the aerial photographs are provided in Appendix F.

Aerial Photograph (year)	Details
1958	The Site and study area are primarily agricultural land. Aurele Street, Maxime Street and part of Meadowbrook Road are visible. One farmhouse and one rural residence are present in the study area.
1965	The Site and study area are primarily agricultural land. Aurele Street, Maxime Street and part of Meadowbrook Road are visible. Some rural residential houses and farmhouses are present.
1976	The existing building on the site has been constructed. The north, south and east of the study area has been developed into several residential houses. The study area to the west consists of vacant land.
1991	The site and study area appears to be similarly developed to the 1976 photograph. The west of the study area has been developed into several residential houses. All streets are present in their current configuration.
1999	The site and study area appears to be similarly developed to the 1991 photograph.
2007	A shed appears to have been constructed on the south of the property. The remaining of the site and study area appears to be similarly developed to the 1999 photograph.
2019	The original shed was removed, and a detached garage was constructed beside the location of the shed. The remaining of the site and study area appears to be similarly developed to the 2007 photograph.

Based on the review of the aerial photographs, no additional PCAs have been identified in the Phase One study area in addition to those mentioned in previous sections.

3.9.2 Topography, Hydrology, Geology

Bedrock and surficial geology were reviewed via the Google Earth applications published by the Ontario Ministry of Energy, Northern Development and Mines. The bedrock geology application is available via www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth/bedrock-geology and was last modified on March 19, 2018. The surficial geology application is available via www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth/surficial-geology and was last modified on May 23, 2017.

Based on the surficial geology map examined, beneath any fill, the surficial geology of the subject site is characterised by fine textured glaciomarine deposits of silt and clay. An examination of the bedrock geology map shows the subject site is underlain by limestone, dolostone, siltstone and shale of the Georgian Bay Formation.

3.9.3 Fill Materials

It is assumed that some fill material is present beneath the building and parking lot on the Site. This represents PCA 21 (PCA #30 – Imported Fill Material of Unknown Quality).

3.9.4 Water Bodies and Areas of Natural Significance

There are no water bodies on the subject site. The closest body of water is an unnamed water source tributary to Green's Creek approximately 330 m to the east. Topographically, the Phase One property is relatively flat. Based on local topography, the groundwater flow at the Phase One property is anticipated to be southeast towards Green's Creek.

There are no Area of Natural Significance (ANSI) within the Phase One study area, according to the Ministry of Natural Resources and Forestry Natural Heritage website (www.gisapplication.lrc.gov.on.ca/mamnh/Index.html).

3.9.5 Well Records

The Ontario well records website (www.ontario.ca/environment-and-energy/map-well-records water wells) was accessed. There were 8 well records for the Phase One study area. All of the records were for monitoring wells.

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There are no oil, gas, or salt wells within the Phase One study area, according to the Oil, Gas & Salt Resources Library (maps.ogsrlibrary.com/wells/).

3.10 Site Operating Records

No site operating records were provided to EXP for review.

4.0 Interviews

Interviews were conducted by EXP with the individuals identified to be the most knowledgeable about both the current and historical Phase One property uses. The purpose of interviews is to obtain information to assist in identifying areas of potential environmental concern and identify details of potentially contaminating activities or potential contaminant pathways, in, on or below the Phase One property.

Mr. Sael Nemorin, the potential purchaser was interviewed in person on October 18, 2021. Mr. Nemorin was unaware of any potential environmental concerns on the Phase One property.

The current owner is unknown, no information was provided.

Responses to other questions were made during site reconnaissance and are discussed in section 5.0.

5.0 Site Reconnaissance

5.1 General Requirements

On October 18, 2021 at 1 p.m., Ms. Eve Nadeau-Labadie, EIT of EXP conducted the site visit for the Phase One property. The weather was overcast with an approximate temperature of 9 degrees Celsius. The Site visit lasted approximately 60 minutes.

The site visit was conducted in accordance with EXP's internal health and safety protocols and with the Ministry of Labour health and safety regulations. The purpose of the site visit was to assess the current conditions of the Phase One property.

Observations of the Phase One property and surrounding properties within the Phase One study area were conducted. Adjoining properties were observed from within the grounds of the Phase One property and from public roads and sidewalks.

Photographs were taken at the Phase One property on during the site visit and pertinent photographs are included in Appendix F.

5.2 Specific Observations at the Phase One Property

5.2.1 Buildings and Structures

The building is one-storey, brick clad, with a full basement. The residence has two apartment units. Both of the units were vacant at the time of the site visit. Two paved driveways are present on the north side of the property and a detached single-car garage on the south side of the property.

5.2.2 Site Utilities and Services

The Site is serviced with municipal sewer and water, overhead hydro and natural gas.

There was no evidence of a railway being present on the Phase One property.

5.3 Storage Tanks

5.3.1 Underground Storage Tanks

EXP did not observe any evidence of USTs, such as vent and fill pipes, during the site reconnaissance. Furthermore, the historical review did not identify any former USTs at the site.

5.3.2 Above Ground Storage Tanks

Cut vent pipes were observed within the south side of the basement underneath the stairwell suggest that a furnace oil AST may have been formerly located there. At the time of the visit, the tank had been removed from the property and no visible sign of spills or contamination were present. As no visible signs of contamination were present in the basement, the potential former AST does not represent an APEC.

5.4 Chemical Storage Handling and Floor Condition

Chemical use on the Phase One property was limited to small quantities of commonly available retail sized containers of cleaners and detergents, as well as common maintenance chemicals such as paint. At the time of the Site visit, the property was not occupied.

5.5 Areas of Stained Soil, Pavement or Stressed Vegetation

No areas of significant staining of soil or pavement was observed on the Site at the time of EXP's site visit. Further, the vegetation on the Site did not appear to be stressed.

5.6 Fill and Debris

There is potential for fill material to be present in on the Phase Two property (PCA 1).

5.7 Air Emissions

Regulatory control of air emissions in Ontario is the responsibility of the MECP. According to the Environmental Protection Act (EPA), an ECA (Air) is required for the ongoing operation of any equipment that may discharge a contaminant into the natural environment if the equipment was installed, modified or altered after June 29, 1988.

No air emissions of concerns were identified at the time of the site visit.

5.8 Odours

No strong odours were present during the site visit.

5.9 Noise

No excessive noise was heard during the site visit.

5.10 Other Observations

There were no pits and lagoons, no railways or spurs and no unidentified substances observed on the Phase One property.

5.11 Special Attention Items, Hazardous Building Materials and Designated Substances

5.11.1 Asbestos

Asbestos-containing materials (ACM) are fibrous hydrated silicates and can be found in building materials as either "unbound" or "bound" asbestos. Friable asbestos refers to materials where the asbestos fibres can be separated from the material with which it is associated. Non-Friable asbestos refers to asbestos that is associated with a binding agent (such as tar or cement). Friable asbestos is commonly found in boiler and pipe insulation. Non-Friable asbestos is typically found in roofing tars, floor and ceiling tiles, and asbestos-containing cement.

ACM in the workplace are defined as a Designated Substance under the Ontario Occupational Health and Safety Act (OHSA). Under OHSA, persons in the workplace are required to be notified of the presence of ACMs once they are suspected to be present, and if there is a potential for workers to be exposed. The use of ACM was discontinued in Canada in the late 1970s/early 1980s, although non-friable asbestos can still be found in recently constructed buildings.

Based on the age of the building at the Phase One property ACM may be present.

5.11.2 Ozone Depleting Substances (ODSs)

Chlorofluorocarbons (CFC), often referred to as freons, ceased production in Canada in 1993 as a result of their ozone-depleting characteristics. Importation of CFCs into Canada ceased in 1997 and a total ban on their use is proposed for 2020.

The use of these materials is still permitted in existing equipment, but equipment must be serviced by a licensed contractor such that CFCs are contained and not released to the environment during servicing or operation.

Maintenance of refrigerant containing equipment should continue to be completed by a licensed refrigeration contractor. The equipment should only be repaired, removed, or serviced by an appropriately licensed contractor.

5.11.3 Lead

Lead has frequently been used in oil-based paints, roofing materials, cornices, tank linings, electrical conduits and soft solders for tinplate and plumbing. The use of lead-based paints (LBPs) was phased out *circa* 1976. Paint that was produced or used between 1976 and 1980 may contain small amounts of lead. Paint that was produced or used prior to 1950 may contain higher levels of lead. The main concern regarding lead paint is its potential to become lead dust or chips either through deterioration and/or mechanical means (i.e., sanding, abrasion, etc.). Exposure to lead dust or chips occurs by ingestion or inhalation.

Based on the age of the building at the Phase One property LBPs may be present. The painted surfaces observed during EXP's site visit were observed to be in good condition.

5.11.4 Mercury

Mercury could be found in some batteries, light bulbs, old paints, thermostats, old mirrors, etc. Based on an investigation by Consumer and Corporate Affairs Canada, and an assessment of potential health risks by Health and Welfare Canada, in 1991 the decision was made to eliminate the use of mercury compounds in indoor latex paints. The Canadian Paint and Coatings Association (CPCA) supported the withdrawal and all Canadian manufacturers and formulators of the preservative voluntarily agreed to remove "interior uses" from their product labels.

Mercury-containing equipment was not observed during the Site visit. The interior painted surfaces observed during EXP's site visit were in good condition. No mercury-containing thermostats were observed in the building.

5.11.5 Polychlorinated Biphenyls (PCB)

The manufacture of PCB in North America was prohibited under the Toxic Substances Control Act (1977). Their use as a constituent of new products manufactured in or imported into Canada was prohibited by regulations in 1977 and 1980. As such, sites developed or significantly renovated after 1980 are unlikely to have PCB-containing equipment on the Phase One property. Potential equipment, which could contain PCB include fluorescent mercury and sodium vapour light ballasts, oil filled capacitors and transformers. Any electrical equipment containing PCB must be disposed of in accordance with Ontario Regulation 362 when it is removed from service. Ongoing operation of equipment containing PCB is permissible.

There was no evidence of PCB-containing equipment on the Phase One property.

5.11.6 Urea Formaldehyde Foam Insulation

Formaldehyde is a pungent, colourless gas commonly used in water solution as a preservative and disinfectant. It is also a basis for major plastics, including durable adhesives. It occurs naturally in the human body and in the outdoor environment. Formaldehyde is used to bond plywood, particleboard, carpets, and fabrics, and it contributes to "that new house smell."

Formaldehyde is also a by-product of combustion; it is found in tobacco smoke, vehicle exhaust and the fumes from furnaces, fireplaces and wood stoves. While small amounts of formaldehyde are harmless, it is an irritating and toxic gas in significant concentrations. Symptoms of overexposure to formaldehyde include irritation to eyes, nose, and throat; persistent cough and respiratory distress; skin irritation; nausea; headache; and dizziness.

Urea-formaldehyde foam insulation (UFFI) was developed in Europe in the 1950s as an improved means of insulating difficult-to-reach cavities in the walls. It is typically made at a construction site from a mixture of urea-formaldehyde resin, a foaming

agent and compressed air. When the mixture is injected into the wall, urea and formaldehyde unite and "cure" into an insulating foam plastic.

During the 1970s, when concerns about energy efficiency led to efforts to improve building insulation in Canada, UFFI became an important insulation product for existing buildings. The further use of UFFI was banned in Canada in 1980.

No evidence of UFFI was observed during the site visit.

5.11.7 Radon

Radon is a colourless, odourless, radioactive gas that occurs naturally in the environment. It comes from the natural breakdown of uranium in soils and rocks. Exposure to high levels of radon increases the risk of developing lung cancer. This relationship has prompted concern that radon levels in some Canadian buildings may pose a health risk. Radon gas can move through small spaces in the soil and rock and seep into a building through cracks in concrete, sumps, joints, and basement drains. Concrete-block walls are particularly porous to radon and radon trapped in water from wells can be released into the air when the water is used.

Due to the potential health concerns associated with radon, Health Canada released a guideline in June 2007 for a maximum acceptable level of radon gas of 200 Becquerels per cubic metre (Bq/m³) where radon gas is present and the annual radon concentration exceeds 200 Bq/m³ in the normal occupancy area.

A radon gas assessment was beyond the scope of this Phase One ESA, and as such, radon gas was not assessed.

5.11.8 Mould

Mould is found in the natural environment and is required for the breakdown of plant debris such as leaves and wood. Mould spores are found in the air in both the indoor and outdoor environments. In order for mould to grow, a food source (i.e. gypsum wallboard, wallpaper, wood, etc.) and moist conditions are required. Mould can have an impact on human health depending on the species and concentration of the airborne mould spores. Health effects can include allergies and mucous membrane irritation.

Currently there are no regulations governing mould; however, there are several guidelines addressing mould assessments and abatement. At the moment, the industry standards include the Canadian Construction Association (CCA) document 82-2004 titled "mould guidelines for the Canadian construction industry" and the Environmental Abatement Council of Ontario (EACO) guidelines titled "EACO Mould Abatement Guidelines, Edition 3 (2015)."

It is important to note that the Ministry of Labour (MOL) has governed protecting workers under the Occupational Health and Safety Act, which states that employers are required to take every precaution reasonable to protect their workers. This includes protecting workers from mould within workplace buildings.

No mould or significant water damage was observed during the site visit.

5.12 Other Substances

No other special attention substances (such as acrylonitrile or isocyanates) were suspected to be present at the Phase One property at the time of site reconnaissance.

5.13 Processing and Manufacturing Operations

No processing or manufacturing operations were observed at the Phase One property.

5.14 Hazardous Materials Use and Storage

No hazardous materials are used or stored at the Phase One property.

5.15 Vehicle and Equipment Maintenance Areas

No equipment maintenance has occurred on the Phase One property.

5.16 Oil/Water Separators

No oil/water separators were present at the Phase One property.

5.17 Sewage and Wastewater Disposal

Sewage and wastewater generated at the Phase One property was disposed of via the municipal system. There is no wastewater currently generated at the Phase One property.

5.18 Solid Waste Generation, Storage & Disposal

No solid wastes are currently generated at the Phase One property.

5.19 Liquid Waste Generation, Storage & Disposal

No liquid waste is generated at the Phase One property.

5.20 Unidentified Substances

No unidentified substances were observed on the Phase One property at the time of the site visit. No dumping or any other deleterious materials were identified.

5.21 Hydraulic Lift Equipment

No hydraulic equipment was observed at the Phase One property.

5.22 Mechanical Equipment

No mechanical equipment of concern was present on the Phase One property.

5.23 Abandoned and Existing Wells

There are no wells present on the Phase One property.

5.24 Roads, Parking Facilities and Right of Ways

Vehicular access to the Phase One property is via Meadowbrook Road.

5.25 Adjacent and Surrounding Properties

A visual inspection of the adjacent properties and properties within 250 m of the Phase One property was conducted from publicly accessible areas to identify the occupants and document the uses and sources of potential environmental concerns that may impact the Phase One property. Refer to Figure 3 in Appendix C for the adjacent land uses.

The following land uses border the Phase One property:

- North: Meadowbrook Road followed by residential;
- East: Residential;
- West: Residential;
- South: Maxime Park followed by residential;

No environmental concerns relating to the adjacent properties were observed at the time of the site visit.

5.13 Enhanced Investigation Property

Ontario Regulation 153/04 defines an enhanced investigation property as a “property that is used, or has ever been used, in whole or in part for an industrial use or any of the following commercial uses: a garage; a bulk liquid dispensing facility, including a gasoline outlet; or, for the operation of dry-cleaning equipment.”

Therefore, in accordance with Regulation 153/04, the property is not considered to be an enhanced investigation property.

5.14 Summary and Written Description of Investigation

At the time of the investigation, the Phase One property consisted of vacant residential properties.

Based on the findings of this investigation the following PCA have been identified in the Phase One study area:

- PCA #30 – Imported Fill Material of Unknown Quality
- PCA #28 – Gasoline and Associated Products Stored in Fixed Tanks

The following areas of potential environmental concern (APEC) were identified:

- APEC #1 – Assumed fill on Phase One property (PCA #30 – Imported Fill Material of Unknown Quality (**PCA 1**)).

6.0 Review and Evaluation of Information

6.1 Current and Past Uses

Based on a review of historical aerial photographs, and other records review, it appears the subject site was first developed as a residence circa 1976.

6.2 Potentially Contaminating Activity

Ontario Regulation (O. Reg.) 153/04 defines a Potential Contaminating Activity (PCA) as one of fifty-nine (59) industrial operations set out in Table 2 of Schedule D that occurs or has occurred in the Phase One study area. The following PCA were identified for the Phase One property and the Phase One study area:

The following PCAs were identified:

- **PCA 1** – Assumed fill on Phase One property (PCA #30 – Imported Fill Material of Unknown Quality)
- **PCA 2** – A former above ground furnace oil storage tank was located within the basement of the residence (PCA #28 – Gasoline and Associated Products Stored in Fixed Tanks).

PCA#2 is not a concern since it was removed and there was no evidence of staining or contamination visible in the basement of the residence. No other PCAs that took place within the vicinity of the Phase One property (approximately 250 m radius) were identified.

6.3 Areas of Potential Environmental Concern

Ontario Regulation 153/04 defines an APEC as an area on a property where one or more contaminants are potentially present. Based on this Phase One ESA, the following APEC was identified:

Area of Potential Environmental Concern (APEC)	Location of APEC on Phase One Property	Potentially Contaminating Activity (PCA)	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil and/or Sediment)
APEC #1	Entire Phase One property	PCA#30 – Imported Fill Material of Unknown Quality	On-Site	BTEX, PHC, PAH, metals	Soil

6.4 Phase One Conceptual Site Model

To develop a conceptual model for the Phase One property, the following physical characteristics and pathways were considered. A conceptual site model (CSM) showing the topography of the site, inferred groundwater flow, general site features, APEC, and PCA is shown in Figure 2.

6.4.1 Buildings and Structures

The Site building is a one-storey, brick clad, residence with a full basement that was built circa 1976. The residence has two apartment units. Both of the units were vacant at the time of the site visit. Two paved driveways are present on the north side of the property and a detached single-car garage on the south side of the property.

6.4.2 Water Bodies and Groundwater Flow Direction

There are no water bodies on the subject site. The closest body of water is an unnamed water source tributary to Green's Creek approximately 330 m to the east. Topographically, the Phase One property is relatively flat. Based on local topography, the groundwater flow at the Phase One property is anticipated to be southeast towards Green's Creek.

6.4.3 Areas of Natural Significance

There are no ANSI within the Phase One study area.

6.4.4 Water Wells

There are records for 8 monitoring wells within the Phase One study area. All of the records were for monitoring wells.

6.4.5 Potentially Contaminating Activity

The following on-site PCA were identified:

- PCA #30 – Imported Fill Material of Unknown Quality
- PCA #28 – Gasoline and Associated Products Stored in Fixed Tanks

6.4.6 Areas of Potential Environmental Concern

The following APEC were identified:

- APEC #1 – Assumed fill beneath building and parking lot (PCA #30 – Imported Fill Material of Unknown Quality (**PCA 1**)).

6.4.7 Subsurface Stratigraphy

Based on the surficial geology map examined, beneath any fill, the surficial geology of the subject site is characterised by fine textured glaciomarine deposits of silt and clay. An examination of the bedrock geology map shows the subject site is underlain by limestone, dolostone, siltstone and shale of the Georgian Bay Formation.

6.4.8 Uncertainty Analysis

The CSM is a simplification of reality, which aims to provide a description and assessment of any areas where potentially contaminating activity that occurred within the Phase One study area may have adversely affected the Phase One property. All information collected during this investigation, including records, interviews, and site reconnaissance, has contributed to the formulation of the CSM.

Information was assessed for consistency, however EXP has confirmed neither the completeness nor the accuracy of any of the records that were obtained or of any of the statements made by others. All reasonable inquiries to obtain accessible information were made, as required by Schedule D, Table 1, Mandatory Requirements for Phase One Environmental Site Assessment Reports. The CSM reflects our best interpretation of the information that was available during this investigation.

7.0 Conclusions

EXP understands that the most recent use of the property is defined by Ontario Regulation 153/04 was residential and that the proposed use is residential.

In summary, the following areas of potential environmental concern (APEC) were identified:

Area of Potential Environmental Concern (APEC)	Location of APEC on Phase One Property	Potentially Contaminating Activity (PCA)	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil and/or Sediment)
APEC #1	Entire Phase One property	PCA#30 – Imported Fill Material of Unknown Quality	On-Site	BTEX, PHC, PAH, metals	Soil

The Qualified Person can confirm that the Phase One Environmental Site Assessment was conducted per the requirements of Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices.

The Qualified Person who oversaw this work, Mark McCalla, P.Geo., recommends that a Phase Two ESA be conducted to address the PCA that may have adversely affected the APEC on the Phase One property.

8.0 References

- City of Ottawa, GeoOttawa online mapping tool, (maps.ottawa.ca/geoottawa).
- Environment Canada, *National Inventory of PCBs in Use and PCB Wastes in Storage in Canada*, 2003 Annual Report, 2004.
- Golder Associates Ltd., *Old Landfill Management Strategy, Phase 1, Identification of Sites, City of Ottawa, Ontario*, October 2004.
- Intera Technologies Ltd., *Inventory of Coal Gasification Plant Waste Sites in Ontario, Volume II*, April 1987.
- Natural Resources Canada, The Atlas of Canada – Toporama website (atlas.gc.ca/toporama/en/)
- Oil, Gas & Salt Resources Library, website (maps.ogsrlibrary.com/wells).
- Ontario Ministry of Energy, Northern Development and Mines, Bedrock Geology Application (www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth/bedrock-geology), March 19, 2018.
- Ontario Ministry of Energy, Northern Development and Mines, Surficial Geology Application (www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth/surficial-geology), May 23, 2017.
- Ontario Ministry of the Environment, Conservation and Parks, *Access Environment website* (www.accessenvironment.ene.gov.on.ca).
- Ontario Ministry of the Environment, Conservation and Parks, *Environmental Registry website* (www.ebr.gov.on.ca/ERS-WEB-External).
- Ontario Ministry of the Environment, Conservation and Parks, *Guide for Completing Phase One Environmental Site Assessments under Ontario Regulation 153/04*, June 2011.
- Ontario Ministry of the Environment, Conservation and Parks *Hazardous Waste Information Network website* (www.hwin.ca).
- Ontario Ministry of the Environment, Conservation and Parks, *Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario*, November 1988.
- Ontario Ministry of the Environment, Conservation and Parks, *Ontario Inventory of PCB Storage Sites*, October 1995.
- Ontario Ministry of the Environment, Conservation and Parks, *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act*, July 1, 2011.
- Ontario Ministry of the Environment, Conservation and Parks, Records of Site Condition website (www.lrcsde.lrc.gov.on.ca).
- Ontario Ministry of the Environment, Conservation and Parks, *Waste Disposal Site Inventory*, June 1991.
- Ontario Ministry of the Environment, Conservation and Parks, Water Wells website (www.ontario.ca/environment-and-energy/map-well-records water wells).
- Ontario Ministry of Labour, *Occupational Health and Safety Act*, R.S.O. 1990.
- Ontario Ministry of Natural Resources and Forestry, Natural Heritage website (www.gisapplication.lrc.gov.on.ca/mamnh/Index.html).

9.0 Limitation of Liability, Scope of Report, and Third Party Reliance

Basis of Report

This report ("Report") is based on site conditions known or inferred by the investigation undertaken as of the date of the Report. Should changes occur which potentially impact the condition of the site the recommendations of EXP may require re-evaluation. Where special concerns exist, or Nemorin Group Limited ("the Client") has special considerations or requirements, these should be disclosed to EXP to allow for additional or special investigations to be undertaken not otherwise within the scope of investigation conducted for the purpose of the Report.

Reliance on Information Provided

The evaluation and conclusions contained in the Report are based on conditions in evidence at the time of site inspections and information provided to EXP by the Client and others. The Report has been prepared for the specific site, development, building, design or building assessment objectives and purpose as communicated by the Client. EXP has relied in good faith upon such representations, information and instructions and accepts no responsibility for any deficiency, misstatement or inaccuracy contained in the Report as a result of any misstatements, omissions, misrepresentation or fraudulent acts of persons providing information. Unless specifically stated otherwise, the applicability and reliability of the findings, recommendations, suggestions or opinions expressed in the Report are only valid to the extent that there has been no material alteration to or variation from any of the information provided to exp. If new information about the environmental conditions at the Site is found, the information should be provided to EXP so that it can be reviewed and revisions to the conclusions and/or recommendations can be made, if warranted.

Standard of Care

The Report has been prepared in a manner consistent with the degree of care and skill exercised by engineering consultants currently practicing under similar circumstances and locale. No other warranty, expressed or implied, is made. Unless specifically stated otherwise, the Report does not contain environmental consulting advice.

Complete Report

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment form part of the Report. This material includes, but is not limited to, the terms of reference given to EXP by the Client, communications between EXP and the Client, other reports, proposals or documents prepared by EXP for the Client in connection with the site described in the Report. In order to properly understand the suggestions, recommendations and opinions expressed in the Report, reference must be made to the Report in its entirety. EXP is not responsible for use by any party of portions of the Report.

Use of Report

The information and opinions expressed in the Report, or any document forming part of the Report, are for the sole benefit of the Client. No other party may use or rely upon the Report in whole or in part without the written consent of EXP. Any use of the Report, or any portion of the Report, by a third party are the sole responsibility of such third party. EXP is not responsible for damages suffered by any third party resulting from unauthorised use of the Report.

Report Format

Where EXP has submitted both electronic file and a hard copy of the Report, or any document forming part of the Report, only the signed and sealed hard copy shall be the original documents for record and working purposes. In the event of a dispute or discrepancy, the hard copy shall govern. Electronic files transmitted by EXP utilize specific software and hardware systems. EXP makes no representation about the compatibility of these files with the Client's current or future software and hardware systems. Regardless of format, the documents described herein are EXP's instruments of professional service and shall not be altered without the written consent of EXP.

*Nemorin Group Limited
Phase One Environmental Site Assessment
1568 Meadowbrook Road, Ottawa, Ontario
OTT-21019403-A0
November 16, 2021*

10.0 Signatures

We trust this report meets your current needs. If you have any questions pertaining to the investigation undertaken by EXP, please do not hesitate to contact the undersigned. The Qualified Person can confirm that the Phase One Environmental Site Assessment was conducted per the requirements of Ontario Regulation 153/04, as amended, and in accordance with generally accepted professional practices. The Qualified Person who oversaw this work, Mark McCalla, P.Geo. recommends that a Phase Two ESA be conducted to address the PCA that may have adversely affected the APEC on the Phase One property.



Eve Nadeau-Labadie, EIT
Environmental Scientist
Earth and Environment



Mark McCalla, M.Sc., P.Geo.
Senior Project Manager
Earth and Environment

Appendix A: Qualifications of Assessors

Qualifications of Assessors

EXP provides a full range of environmental services through a full-time Environmental Services Group. EXP's Earth and Environment Group has developed a strong working relationship with clients in both the private and public sectors and has developed a positive relationship with Ontario Ministry of the Environment, Conservation and Parks. Personnel in the numerous branch offices form part of a large network of full-time dedicated environmental professionals in the EXP organization.

Eve Nadeau-Labadie, EIT, has three years of experience in the environmental consulting field. She has worked on some Phase I Environmental Site Assessments (ESA), Phase II ESAs, completing soil sampling, assisting in report preparation and data entry and analysis.

Mark McCalla, P.Geo., is a senior Environmental Scientist with EXP who has over 30 years of experience in the environmental consulting field. His technical undertakings have including work in the following fields: Phase I and II Environmental Site Assessments; Site Specific Risk Assessments; Petroleum and chlorinated hydrocarbon contaminated sites; Soil and groundwater remediation technologies; Hydrogeological, Terrain Analysis and Aggregate Assessments; Preparation of Ontario Ministry of Environment Certificate of Approvals and Records of Site Condition. Mr. McCalla is a Qualified Person for completing Phase I and II Environmental Site Assessments as per O.Reg. 153/04.

EXP Services Inc.

Nemorin Group Limited

Phase One Environmental Site Assessment

1568 Meadowbrook Road, Ottawa, Ontario

OTT-21019403-A0

November 16, 2021

Appendix B: Survey Plan

SITE PLAN OF PLAN OF SURVEY, PART OF
LOT 22, CONCESSION 2 (OTTAWA FRONT),
CITY OF OTTAWA

ZONING: R1WW CONVERTED TO R2?
RESIDENTIAL FIRST DENSITY (SEC. 155-156) CITY OF OTTAWA;
RESIDENTIAL SECOND DENSITY (SEC. 157-158) CITY OF OTTAWA;
PROPOSED BUILDING TYPE: 4 x 2 STOREY, LONG-SEMI c/w SDUs
2 x 3-BEDS + 2 x 1-BED EACH
LOT DEPTH: 38.59m (120.05')
ADJACENT ZONING:
NORTH: R2N
SOUTH: I1F (H15)
WEST SIDE: R1WW
EAST SIDE: R3Y170R
SCHEDULE 1 AREA AREA 'C'
SCHEDULE 1A AREA AREA 'C'

LOT INFO				
AFTER CONVERSION TO R2N - ALL LOTS				
P. STANDARD	1568 M. BROOK A REQUIRED	1568 M. BROOK PROPOSED	DETACHED EXISTING	NOTES
LOT WIDTH:	10m	9.915m	39.66m	
LOT AREA:	300m ²	362.3m ²	1451.2m ²	
HEIGHT:	8.5m	8.00m	7.0m	
FRONT YARD:	5m	5.01m	9.36m	
CORNER YARD:	n/a	n/a	n/a	
REAR YARD:	7m	7.53m	10.6m	25% LOT DPTH
INTERIOR YARD:	1m	1.22m	1.72m	
R.Y. SOFTSCAPE:	7m ²	63.5m ²	557m ²	25% OF L. AREA
AMENITY AREA:	n/a	n/a	1	
PARKING SPACES:	0	2	1	
BIKE SPACES:	0	0	0	
M.L.C.:	NO MAX.			

BUILDING AREAS				
BASEMENT FL. GFA:	-	132.0m ²	-	
FIRST FL. GFA:	-	132.0m ²	-	
SECOND FL. GFA:	-	175.3m ²	-	
STORAGE:	-	0.0m ²	-	
GARAGE:	-	0.0m ²	-	
EXITS (ALL FLOORS):	-	0.0m ²	-	
TOTAL LIVING:	-	439.3m ²	-	
TOTAL ALL AREAS:	-	439.3m ²	-	

PROPOSED SITE DEVELOPMENT INFO				
NEW GROSS FLOOR AREA:	439.3m ²	-	185.0m ²	EX. DEMO'D
EX. GROSS FLOOR AREA:	0.0m ²	-	2 PDUs + 2 SDUs	SINGLE
NUMBER OF UNITS:	2	-	1.5	
PROPOSED STOREYS:	2	-		
BUILDING COVERAGE:	38.4%	-		
SOFT LANDSCAPING CVG.:	35.4%	-		
HARD LANDSCAPING CVG.:	2.7%	-		
DECKS/PORCHES/STEPS:	6.4%	-		
ASPHALT CVG.:	19.8%	-		
OTHER:	0.3%	-		

SURVEY INFO:
SURVEY INFO TAKEN FROM
SURVEYOR'S REAL PROPERTY REPORT
PART 1 - PLAN OF SURVEY
PART OF LOT 22, CONCESSION 2 (OTTAWA FRONT),
CITY OF OTTAWA
PREPARED BY:
STANTEC GEOMATICS LTD.
JAN. 7, 2021

SITE NOTES
NEW ROOF DOWN SPOUTS SHALL NOT BE DIRECTED TOWARDS THE ADJACENT PROPERTIES
EXCAVATED MATERIAL TO BE REMOVED FROM PROPERTY
ALL GRADE TO SLOPE 2% AWAY FROM FOUNDATION WALL
ALL MEASUREMENTS ARE IMPERIAL AND (METRIC)
EXISTING GRADING AND DRAINAGE PATTERNS NOT TO BE ALTERED

EXISTING PLANTING MATERIAL			
CODE	COMMON NAME	QTY.	SIZE (DIA.)
DECIDUOUS TREES			
CONIFEROUS TREES			
SHRUBS			

NEW PLANTING MATERIAL			
CODE	COMMON NAME	QTY.	SIZE (DIA.)
DECIDUOUS TREES			
DT1	RED MAPLE	2	50mm Cal.
CONIFEROUS TREES			
SHRUBS			

TREE CONSERVATION NOTES
1. ERECT A FENCE AT THE CRITICAL ROOT ZONE (CRZ1) OF TREES;
2. DO NOT PLACE ANY MATERIAL OR EQUIPMENT WITHIN THE CRZ OF THE TREE;
3. DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE;
4. DO NOT RAISE OR LOWER THE EXISTING GRADE WITHIN THE CRZ WITHOUT APPROVAL;
5. TUNNEL OR BORE WHEN DIGGING WITHIN THE CRZ OF A TREE;
6. DO NOT DAMAGE THE ROOT SYSTEM, TRUNK OR BRANCHES OF ANY TREE;
7. ENSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARDS ANY TREE'S CANOPY.

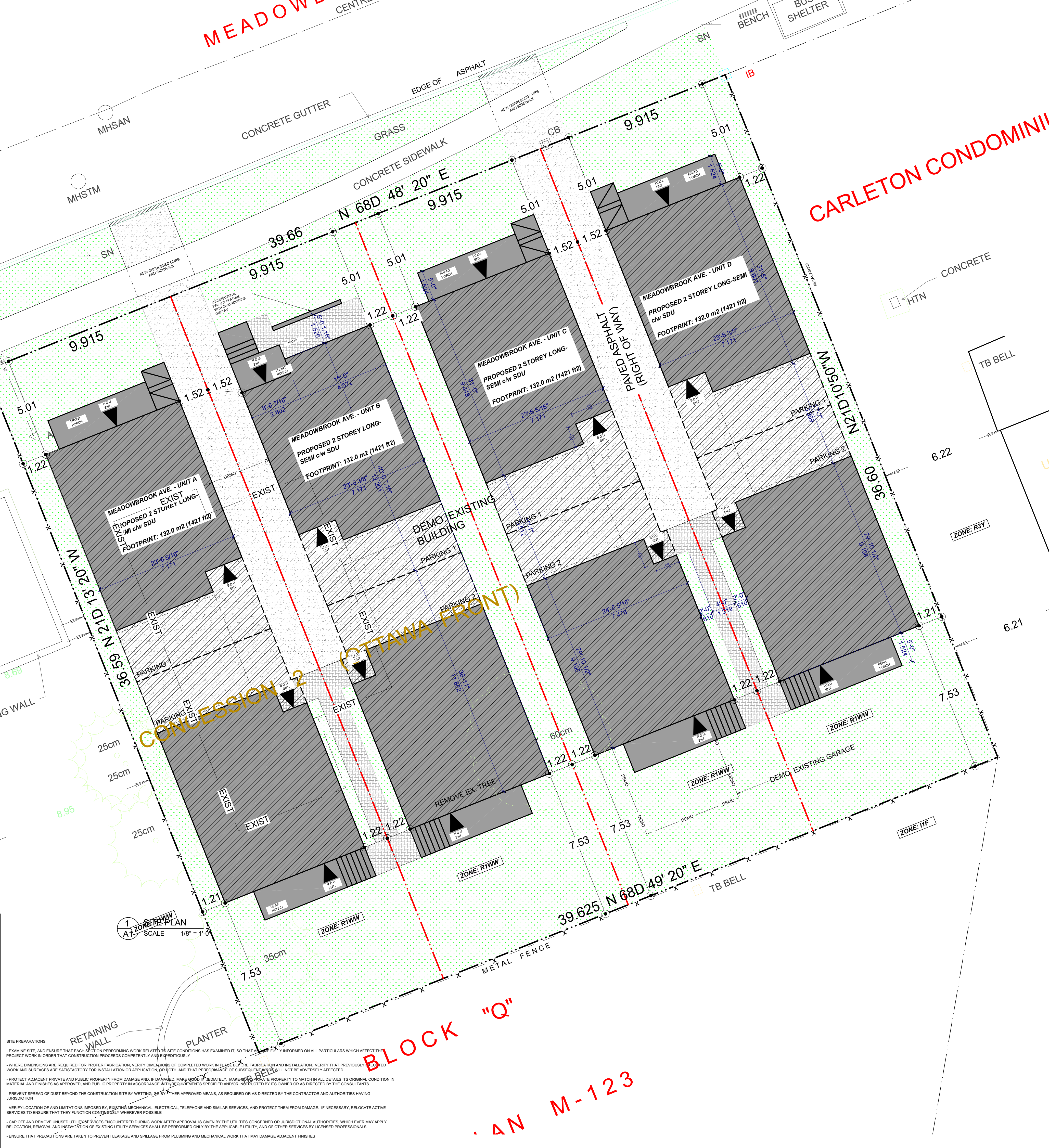
* THE CRITICAL ROOT ZONE (CRZ) IS ESTABLISHED AS BEING 10 CENTIMETRES FROM THE TRUNK OF A TREE FOR EVERY CENTIMETRE OF TRUNK DIAMETER AT BREAST HEIGHT (DBH). THE CRZ IS CALCULATED AS DBH X 10 CM.
* TREE PROTECTION FENCE (PF) TO BE ERECTED BEFORE AND REMAIN UNTIL BUILDING CONSTRUCTION HAS COMPLETED AND TO CONSIST OF 1.8m HIGH PLYWOOD HOARDING (SEE DIAGRAM BELOW).

3 KEY PLAN & CONTEXT
A1 SCALE NO SCALE



SITE LEGEND	
	EX. TREE TO BE REMOVED
	NEW CONIFEROUS TREE
	DENOTES SOFT LANDSCAPING
	DENOTES HARD LANDSCAPING
	EXISTING BUILDING FOOTPRINT
	PROPOSED HONEYCOMB HARD LANDSCAPING
	PROPOSED ASPHALT DRIVEWAY
	PROPOSED WOOD DECKS/BALCONIES
	CAR PARKING SPACE (ASPHALT)
	BICYCLE PARKING (ASPHALT)
	WASTE COLLECTION AREA
	SNOW STORAGE AREA
	PROPOSED/EXISTING ENTRY/EXIT
	PF - TEMPORARY PROTECTION FENCE
	EX. UTILITY POLE
	EX. CHAINED LINK/BOARD FENCE
	PROPERTY LINE

WASTE COLLECTION LEGEND	
GB	
BB	
B	
G	



RESPONSIBILITIES:
DO NOT SCALE DRAWINGS
ALL DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2006
ALL CONTRACTORS MUST WORK IN ACCORDANCE WITH ALL LAWS, REGULATIONS AND BYLAWS HAVING JURISDICTION
IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ALL ERRORS AND OMISSIONS TO THE ARCHITECT/DESIGNER
COPYRIGHT RESERVED
GENERAL NOTES:

AZUL DESIGNS - BCIN: 33578
2277 PROSPECT AVE.
OTTAWA, ON. K1H 7G2
FERNANDO MATOS - BCIN: 22451
613-884-4425
QUALIFICATION INFO
SMALL BUILDINGS
The undersigned has reviewed and takes responsibility for this design, and has the qualifications and meets the requirements set out in the Ontario Building Code to be a designer.

CONSULTANTS:
STRUCTURAL -
MECHANICAL -
ELECTRICAL -
NO. REVISION/ISSUE DATE
PROJECT:
1568 MEADOWBROOK RD.
OTTAWA, ON. K1H 8L5
(613) 612-3268
DRAWING NAME:
SITE & LANDSCAPE PLAN
DRAWN BY: F.M. SHEET: A1
DATE: JUNE 10, 2021
SCALE: AS NOTED

FILE NUMBER: D00-00-0000

EXP Services Inc.

Nemorin Group Limited

Phase One Environmental Site Assessment

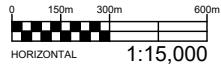
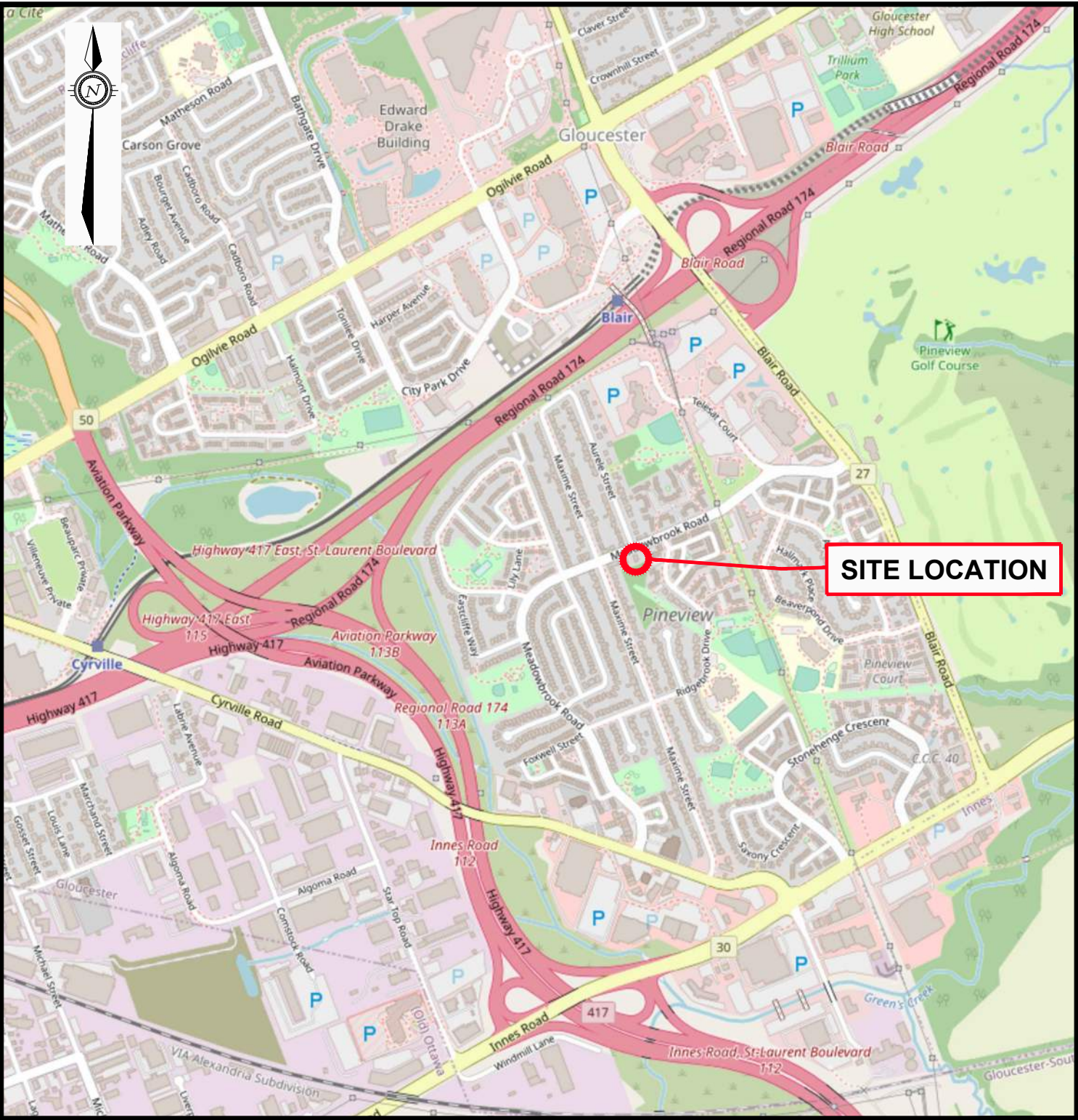
1568 Meadowbrook Road, Ottawa, Ontario

OTT-21019403-A0

November 16, 2021

Appendix C: Figures

Filename: E:\OTT-21019403-A0\60 Execution\65 Drawings\EN\21019403-A0 ph1.dwg
Last Saved: Oct 19, 2021 8:33 AM
Last Plotted: Oct 19, 2021 8:33 AM
Plotted by: mckee



EXP Services Inc. www.exp.com
t: +1.613.688.1899 | f: +1.613.225.7337
2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6, Canada

DATE OCTOBER 2021		CLIENT: NEMORIN GROUP LIMITED		project no. OTT-21019403-A0
DESIGN MM	CHECKED MM	TITLE: SITE LOCATION PLAN		scale 1:15,000
DRAWN BY TM		1568 MEADOWBROOK ROAD, OTTAWA, ONTARIO		FIG 1

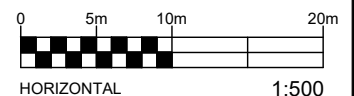


MEADOWBROOK RD

LEGEND



PROPERTY BOUNDARY



EXP Services Inc. www.exp.com

t: +1.613.688.1899 | f: +1.613.225.7337
2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6, Canada

DATE
OCTOBER 2021

DESIGN
MM

CHECKED
MM

DRAWN BY
TM

CLIENT:

NEMORIN GROUP LIMITED

TITLE:

SITE LAYOUT

1568 MEADOWBROOK ROAD, OTTAWA, ONTARIO

project no.

OTT-21019403-A0




scale

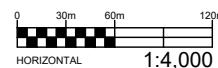
1:500

FIG 2



LEGEND

-  PROPERTY BOUNDARY
-  STUDY AREA (250m)
-  INFERRED GROUNDWATER FLOW DIRECTION



EXP Services Inc. www.exp.com

t: +1.613.688.1899 | f: +1.613.225.7337
2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6, Canada

DATE
OCTOBER 2021

DESIGN
MM

CHECKED
MM

DRAWN BY
TM

CLIENT:

NEMORIN GROUP LIMITED

TITLE:

PHASE ONE STUDY AREA
1568 MEADOWBROOK ROAD, OTTAWA, ONTARIO

project no.

OTT-21019403-A0

scale

1:4,000

FIG 3

EXP Services Inc.

Nemorin Group Limited

Phase One Environmental Site Assessment

1568 Meadowbrook Road, Ottawa, Ontario

OTT-21019403-A0

November 16, 2021

Appendix D: Fire Insurance Plans, Title Search, Municipal Records & Provincial Records



enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Sunita

Site Address:

1568 Meadowbrook Road Gloucester Ont

Project No:

21101300077

Opta Order ID:

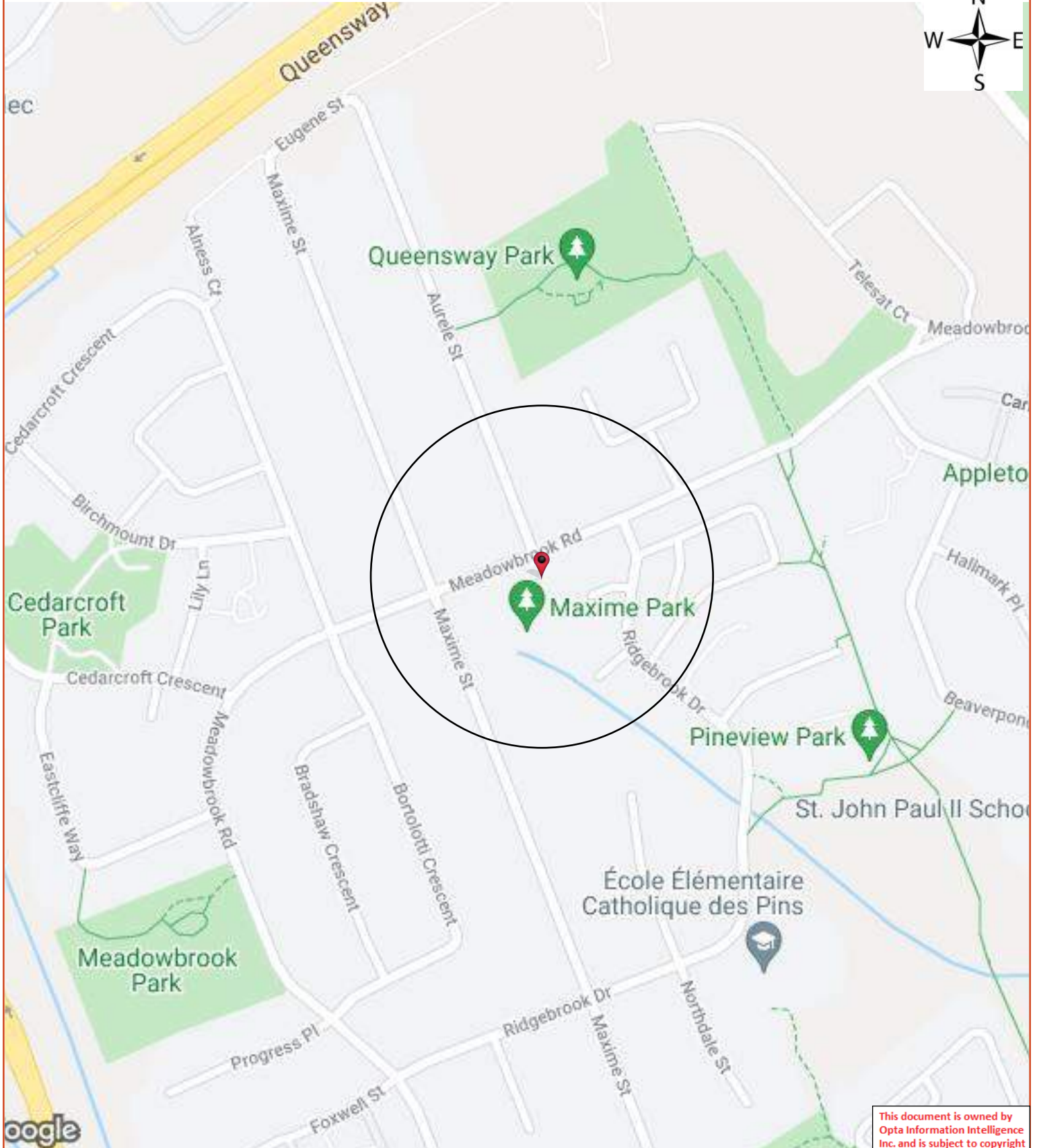
98347

Requested by:

**Eleanor Goolab
ERIS**

Date Completed:

10/18/2021 7:29:17 AM



**Opta Historical Environmental Services Enviroscan
Terms and Conditions****Requested by:**

Eleanor Goolab

Date Completed: 10/18/2021 07:29:17



OPTA INFORMATION INTELLIGENCE

Opta Historical Environmental Services EnviroscanTM

Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

No Records Found

Requested by:

Eleanor Goolab

Date Completed: 10/18/2021 07:29:17



OPTA INFORMATION INTELLIGENCE

No Records Found



Kathy Radisch

From: Kathy Radisch
Sent: Wednesday, October 13, 2021 9:17 AM
To: Matt Read
Cc: Mark McCalla
Subject: Title Search - 1568 Meadowbrook Road, Ottawa - OTT-21019403-A0, 100

Good Morning Matt,

Would you kindly conduct a title search for 1568 Meadowbrook Road, Ottawa. The current owner is Nemorin Group Limited / Sael Nemorin. Let me know if you have any questions or concerns.

Thank you,



Kathy Radisch

EXP | Sr. Administrative Assistant
t : +1.613.688.1899, 3296 | e : kathy.radisch@exp.com
2650 Queensview Drive
Suite 100
Ottawa, ON K2B 8H6
CANADA

exp.com | [legal disclaimer](#)
keep it green, read from the screen



October 13, 2021

Via email:
hlui@ottawa.ca

Planning Division
City of Ottawa
110 Laurier Avenue West
Ottawa, Ontario

Re: OTT-2109403-A0 **Municipal Information Search Request**
 1568 Meadowbrook Road, Ottawa, Ontario

To whom it may concern,

Our firm has been retained to conduct a Phase I Environmental Site Assessment for 1568 Meadowbrook Road, Ottawa, Ontario. We require information pertaining to the property.

We request that the City of Ottawa search their files and provide any information pertaining to the environmental condition of these properties and surrounding areas, including any past environmental reports, orders, certificates or approvals.

Please find attached the consent letter from the property owner to release this information for the property in question. A request for information form has been completed to initiate a search on the property.

If you should have any questions, please do not hesitate to contact me.

Yours truly,

A handwritten signature in blue ink that reads "Kathy Radisch". The signature is fluid and cursive, with the first name "Kathy" and last name "Radisch" clearly distinguishable.

EXP Services Inc.
Kathy Radisch
Administrative Assistant
Earth & Environment

Attachments: Disclaimer
 RFI Form
 Consent from Owner



October 13, 2021

Via Mail

FOI Manager
Freedom of Information & Protection of Privacy Office
Ministry of the Environment, Conservation and Parks
12th Floor, 40 St. Clair Avenue West
Toronto, Ontario M4V 1M2

Re: OTT-21019403-A0 **File Review Request**
 1568 Meadowbrook Road, Ottawa, Ontario

Dear Sir or Madam:

I am sending a Freedom of Information Request to you for 1568 Meadowbrook Road, Ottawa, Ontario. We are conducting an environmental site assessment and require any environmental concerns.

If possible, we would appreciate receiving the documentation by email (kathy.radisch@exp.com) and by mail. If you have any questions, or require any further information, please do not hesitate to contact the undersigned at 613-688-1891, ext. 3296.

Yours truly,
EXP Services Inc.

A handwritten signature in blue ink that reads "Kathy Radisch". The signature is written in a cursive, flowing style.

Kathy Radisch
Administrative Assistant
Earth & Environment

Enclosures: FOI Form
 Credit Card Payment Form (\$128)

EXP Services Inc.

Nemorin Group Limited

Phase One Environmental Site Assessment

1568 Meadowbrook Road, Ottawa, Ontario

OTT-21019403-A0

November 16, 2021

Appendix E: EcoLog ERIS Report



DATABASE REPORT

Project Property:	<i>Phase One ESA 1568 Meadowbrook Road Gloucester ON K1B 3L5</i>
Project No:	<i>OTT-21019403-A0, 100, Mark McCalla</i>
Report Type:	<i>Standard Report</i>
Order No:	<i>21101300077</i>
Requested by:	<i>exp Services Inc.</i>
Date Completed:	<i>October 18, 2021</i>

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

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Executive Summary

Property Information:

Project Property: *Phase One ESA
1568 Meadowbrook Road Gloucester ON K1B 3L5*

Project No: *OTT-21019403-A0, 100, Mark McCalla*

Coordinates:

Latitude: *45.4248247*
Longitude: *-75.6077549*
UTM Northing: *5,030,324.43*
UTM Easting: *452,454.92*
UTM Zone: *18T*

Elevation: *239 FT
72.84 M*

Order Information:

Order No: *21101300077*
Date Requested: *October 13, 2021*
Requested by: *exp Services Inc.*
Report Type: *Standard Report*

Historical/Products:

City Directory Search *CD - Subject Site plus 10 Adjacent Properties*
Insurance Products *Fire Insurance Maps/Inspection Reports/Site Plans*

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.25 km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	3	3
CA	<i>Certificates of Approval</i>	Y	0	2	2
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	0	0
EBR	<i>Environmental Registry</i>	Y	0	0	0
ECA	<i>Environmental Compliance Approval</i>	Y	0	0	0
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	0	0
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	0	0
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	1	1
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	1	4	5
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	1	1
SPL	<i>Ontario Spills</i>	Y	1	5	6
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	8	8
		Total:	2	24	26

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>
1	PINC	TENAGA ENTERPRISES	1568 MEADOWBROOK RD,,OTTAWA,ON, K1B 3L5,CA ON	-/0.0	0.00	16
1	SPL	Enbridge Gas Distribution Inc.	1568 Meadowbrook Dr Ottawa ON	-/0.0	0.00	16

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>2</u>	CA	GLOUCESTER CITY	AURELE ST./MEADOWBROOK RD. GLOUCESTER CITY ON	NNW/30.0	0.03	<u>17</u>
<u>3</u>	WWIS		lot 22 con 2 ON Well ID: 1501289	WSW/71.9	0.03	<u>17</u>
<u>4</u>	WWIS		lot 22 con 2 ON Well ID: 1501285	SW/82.7	0.03	<u>19</u>
<u>5</u>	CA	GLOUCESTER CITY	MAXIME ST./MEADOWBROOK RD. GLOUCESTER CITY ON	W/105.0	0.03	<u>22</u>
<u>6</u>	SPL		2065 Ena Lane Ottawa ON	E/110.0	0.34	<u>22</u>
<u>6</u>	SPL	Enbridge Gas Distribution Inc.	2065 Eric Street Ottawa ON	E/110.0	0.34	<u>23</u>
<u>6</u>	PINC	PIPELINE HIT - 1/2"	2065 ENA LANE,,OTTAWA,ON,K1B 4P3, CA ON	E/110.0	0.34	<u>23</u>
<u>6</u>	PINC	ENBRIDGE GAS INC	2065 ERIC CRES,,OTTAWA,ON,K1B 4P4, CA ON	E/110.0	0.34	<u>24</u>
<u>7</u>	WWIS		lot 22 con 2 ON Well ID: 1501284	SSW/111.6	0.03	<u>24</u>
<u>7</u>	WWIS		lot 22 con 2 ON Well ID: 1501291	SSW/111.6	0.03	<u>27</u>
<u>8</u>	WWIS		lot 22 con 2 ON Well ID: 1501287	SSW/125.9	0.03	<u>30</u>
<u>9</u>	BORE		ON	WSW/130.2	-0.97	<u>33</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>10</u>	WWIS		lot 22 con 2 ON Well ID: 1501290	WSW/130.2	-0.97	<u>34</u>
<u>11</u>	WWIS		lot 22 con 2 ON Well ID: 1501288	SW/139.2	-0.97	<u>36</u>
<u>12</u>	WWIS		lot 22 con 2 ON Well ID: 1501286	SSW/154.3	-0.27	<u>39</u>
<u>13</u>	BORE		ON	ENE/159.3	1.34	<u>41</u>
<u>14</u>	PINC	MOTELAC SERVICES & CONSTRUCTION LTD	1659 MEADOWBROOK RD,,OTTAWA,ON, K1B 4W6,CA ON	N/178.2	1.34	<u>42</u>
<u>14</u>	SPL	Enbridge Gas Distribution Inc.	1659 Meadowbrook Road Ottawa ON	N/178.2	1.34	<u>43</u>
<u>15</u>	BORE		ON	ENE/192.5	1.88	<u>43</u>
<u>16</u>	SCT	Superior Business Forms Inc.	1467 Northdale St Gloucester ON K1B 4G7	SE/193.6	-0.97	<u>45</u>
<u>17</u>	SPL	City of Ottawa	Meadowbrook Rd. at Cedarcroft Crescent Ottawa ON	W/205.2	-0.97	<u>45</u>
<u>18</u>	GEN	ASGO MANAGEMENT CORP.	1390 CEDARCROFT CRES. OTTAWA ON K1B 5E1	W/218.3	-0.97	<u>45</u>
<u>19</u>	SPL		1481 Northdale Court Ottawa ON	SE/249.6	-0.97	<u>46</u>
<u>19</u>	PINC	PIPELINE HIT - 1 ¼"	1481 NORTHDALE STREET,,OTTAWA, ON,K1B 4G7,CA ON	SE/249.6	-0.97	<u>46</u>

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 3 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	ENE	159.33	<u>13</u>
	ON	ENE	192.49	<u>15</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	WSW	130.16	<u>9</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 2 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
GLOUCESTER CITY	AURELE ST./MEADOWBROOK RD. GLOUCESTER CITY ON	NNW	30.00	<u>2</u>
GLOUCESTER CITY	MAXIME ST./MEADOWBROOK RD. GLOUCESTER CITY ON	W	105.05	<u>5</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 30, 2021 has found that there are 1 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
ASGO MANAGEMENT CORP.	1390 CEDARCROFT CRES. OTTAWA ON K1B 5E1	W	218.32	<u>18</u>

PINC - Pipeline Incidents

A search of the PINC database, dated May 31, 2021 has found that there are 5 PINC site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
TENAGA ENTERPRISES	1568 MEADOWBROOK RD,,OTTAWA, ON,K1B 3L5,CA ON	-	0.00	<u>1</u>
ENBRIDGE GAS INC	2065 ERIC CRES,,OTTAWA,ON,K1B 4P4,CA ON	E	109.98	<u>6</u>
PIPELINE HIT - 1/2"	2065 ENA LANE,,OTTAWA,ON,K1B 4P3,CA ON	E	109.98	<u>6</u>
MOTELAC SERVICES & CONSTRUCTION LTD	1659 MEADOWBROOK RD,,OTTAWA, ON,K1B 4W6,CA ON	N	178.15	<u>14</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
PIPELINE HIT - 1 ¼"	1481 NORTHDAL STREET,, OTTAWA,ON,K1B 4G7,CA ON	SE	249.56	<u>19</u>

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 1 SCT site(s) within approximately 0.25 kilometers of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Superior Business Forms Inc.	1467 Northdale St Gloucester ON K1B 4G7	SE	193.58	<u>16</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Aug 2020 has found that there are 6 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
Enbridge Gas Distribution Inc.	1568 Meadowbrook Dr Ottawa ON	-	0.00	<u>1</u>
	2065 Ena Lane Ottawa ON	E	109.98	<u>6</u>
Enbridge Gas Distribution Inc.	2065 Eric Street Ottawa ON	E	109.98	<u>6</u>
Enbridge Gas Distribution Inc.	1659 Meadowbrook Road Ottawa ON	N	178.15	<u>14</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
City of Ottawa	Meadowbrook Rd. at Cedarcroft Crescent Ottawa ON	W	205.22	<u>17</u>
	1481 Northdale Court Ottawa ON	SE	249.56	<u>19</u>

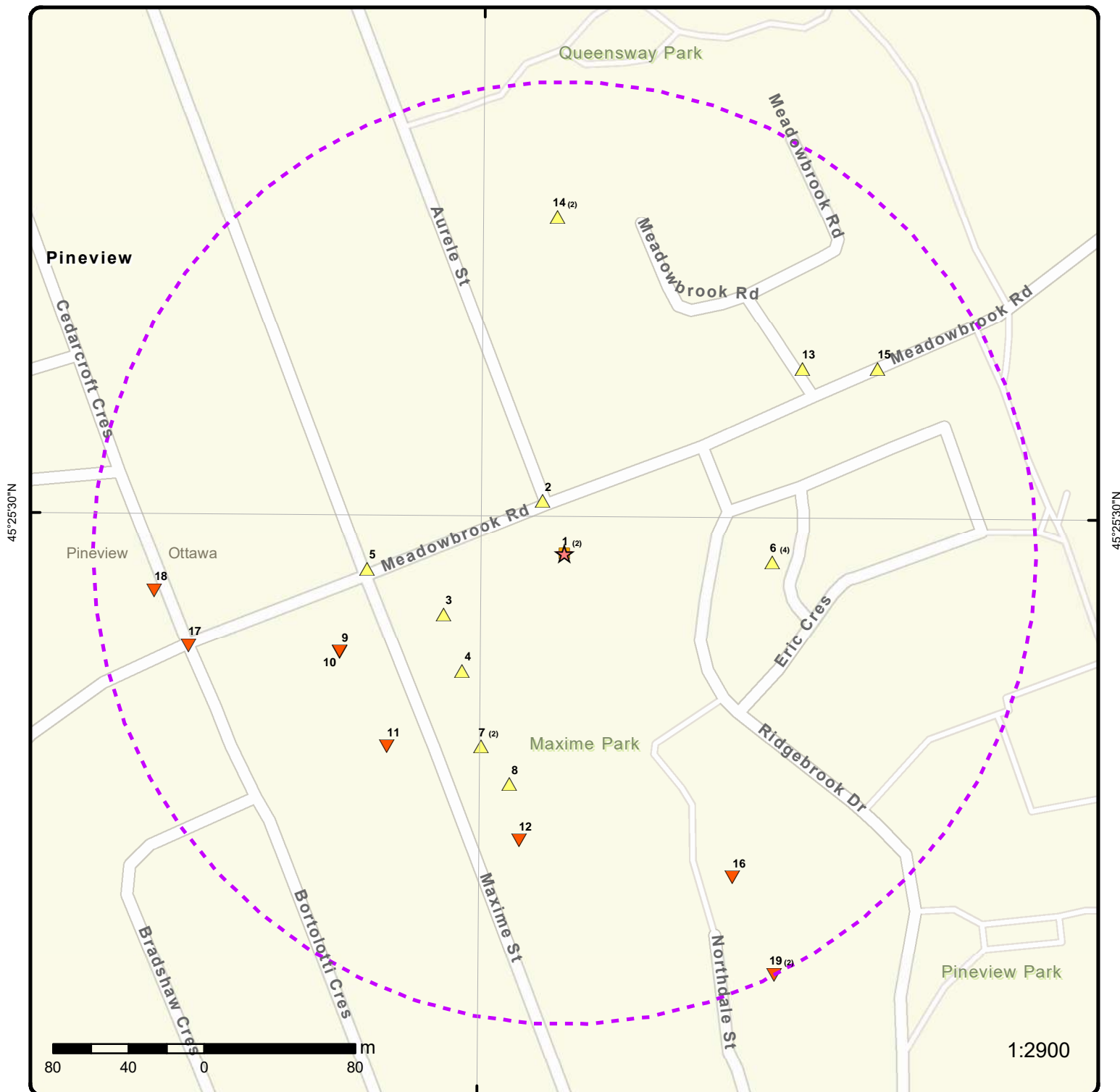
WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2021 has found that there are 8 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 22 con 2 ON <i>Well ID: 1501289</i>	WSW	71.94	<u>3</u>
	lot 22 con 2 ON <i>Well ID: 1501285</i>	SW	82.69	<u>4</u>
	lot 22 con 2 ON <i>Well ID: 1501291</i>	SSW	111.57	<u>7</u>
	lot 22 con 2 ON	SSW	111.57	<u>7</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 1501284			
	lot 22 con 2 ON	SSW	125.87	<u>8</u>
	<i>Well ID:</i> 1501287			

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 22 con 2 ON	WSW	130.24	<u>10</u>
	<i>Well ID:</i> 1501290			
	lot 22 con 2 ON	SW	139.17	<u>11</u>
	<i>Well ID:</i> 1501288			
	lot 22 con 2 ON	SSW	154.34	<u>12</u>
	<i>Well ID:</i> 1501286			



Map: 0.25 Kilometer Radius

Order Number: 21101300077

Address: 1568 Meadowbrook Road, Gloucester, ON



Project Property	Freeways; Highways	Beach	Shopping & Sports Area
Buffer Outline	Traffic Circle; Ramp	Airport	University/College
Eris Sites with Higher Elevation	Major Arterial; Minor Arterial	Industrial Area	Cemetery; Golf Course
Eris Sites with Same Elevation	Local Road	Military Base	Parkt (National)
Eris Sites with Lower Elevation	Service Road; Traffic Circle; Ramp	Aircraft Roads	Park (City/County)
Eris Sites with Unknown Elevation	Rail	Native Reservation	Hospital

75°36'W

45°25'30"N

45°25'30"N



Aerial Year: 2020

Order Number: 21101300077

Address: 1568 Meadowbrook Road, Gloucester, ON



Source: ESRI World Imagery

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45°27'N

75°37'30"W

75°36'W

45°27'N

45°25'30"N

45°25'30"N

45°24'N

45°24'N



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Topographic Map
Address: 1568 Meadowbrook Road, ON
Source: ESRI World Topographic Map

Order Number: 21101300077



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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	72.8 / 0.00	TENAGA ENTERPRISES 1568 MEADOWBROOK RD,,OTTAWA,ON,K1B 3L5,CA ON	PINC
<div> <div> Incident ID: Incident No: 1512210 Incident Reported Dt: 11/4/2014 Type: FS-Pipeline Incident Status Code: Tank Status: Pipeline Damage Reason Est Task No: 5241981 Spills Action Centre: Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: 2014/11/18 Depth: Customer Acct Name: TENAGA ENTERPRISES Incident Address: 1568 MEADOWBROOK RD,,OTTAWA,ON,K1B 3L5,CA Operation Type: Pipeline Type: Regulator Type: Summary: 1568 MEADOWBROOK ROAD, OTTAWA - PIPELINE HIT - 1/2" Reported By: Piere Potbin - Enbridge Affiliation: Occurrence Desc: Damage Reason: No notification made to the one call center Notes: </div> <div> Pipe Material: Fuel Category: Natural Gas Health Impact: Environment Impact: Property Damage: Yes Service Interrupt: Enforce Policy: Yes Public Relation: Pipeline System: PSIG: Attribute Category: FS-Perform P-line Inc Invest Regulator Location: Method Details: E-mail </div> </div>					
1	2 of 2	-/0.0	72.8 / 0.00	Enbridge Gas Distribution Inc. 1568 Meadowbrook Dr Ottawa ON	SPL
<div> <div> Ref No: 5538-9QJQ7D Site No: NA Incident Dt: 2014/11/04 Year: Incident Cause: Leak/Break Incident Event: Contaminant Code: 35 Contaminant Name: NATURAL GAS (METHANE) Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Confirmed Nature of Impact: Air Pollution Receiving Medium: Receiving Env: MOE Response: Referral to others Dt MOE Arvl on Scn: MOE Reported Dt: 2014/11/04 Dt Document Closed: 2014/12/20 </div> <div> Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Pipeline/Components Agency Involved: Nearest Watercourse: Site Address: 1568 Meadowbrook Dr Site District Office: Site Postal Code: Site Region: Site Municipality: Ottawa Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel </div> </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Incident Reason:		Operator/Human Error		Source Type:	Release/Spill
Site Name:		Residential<UNOFFICIAL>			
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:		TSSA: 1/2" like strike -still blowing-			
Contaminant Qty:		0 other - see incident description			
2	1 of 1	NNW/30.0	72.9 / 0.03	GLOUCESTER CITY AURELE ST./MEADOWBROOK RD. GLOUCESTER CITY ON	CA
Certificate #:		3-0860-93-			
Application Year:		93			
Issue Date:		8/5/1993			
Approval Type:		Municipal sewage			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
3	1 of 1	WSW/71.9	72.9 / 0.03	lot 22 con 2 ON	WWIS
Well ID:		1501289		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Domestic		Date Received:	9/8/1959
Sec. Water Use:		0		Selected Flag:	True
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	4825
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	GLOUCESTER TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	022
Well Depth:				Concession:	02
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501289.pdf			
Additional Detail(s) (Map)					
Well Completed Date:		1959/07/03			
Year Completed:		1959			
Depth (m):		53.34			
Latitude:		45.4245284432401			
Longitude:		-75.6085726281125			
Path:		150\1501289.pdf			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Bore Hole Information</u>					
Bore Hole ID:	10023332			Elevation:	70.273330
DP2BR:	2.00			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	452390.70
Code OB Desc:	Bedrock			North83:	5030292.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:	03-Jul-1959 00:00:00			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
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:	930991455				
Layer:	2				
Color:					
General Color:					
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:	17				
Mat2 Desc:	SHALE				
Mat3:					
Mat3 Desc:					
Formation Top Depth:	2.0				
Formation End Depth:	175.0				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	930991454				
Layer:	1				
Color:					
General Color:					
Mat1:	05				
Most Common Material:	CLAY				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	0.0				
Formation End Depth:	2.0				
Formation End Depth UOM:	ft				
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:	961501289				
Method Construction Code:	1				
Method Construction:	Cable Tool				
Other Method Construction:					
<u>Pipe Information</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID:		10571902			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039548			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039549			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		175			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991501289			
Pump Set At:					
Static Level:		12.0			
Final Level After Pumping:		20.0			
Recommended Pump Depth:		18.0			
Pumping Rate:		6.0			
Flowing Rate:					
Recommended Pump Rate:		3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453983			
Layer:		1			
Kind Code:		3			
Kind:		SULPHUR			
Water Found Depth:		160.0			
Water Found Depth UOM:		ft			
4	1 of 1	SW/82.7	72.9 / 0.03	lot 22 con 2 ON	WWIS
Well ID:	1501285			Data Entry Status:	
Construction Date:				Data Src:	1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Primary Water Use:	Domestic			Date Received:	9/8/1959
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	4825
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	GLOUCESTER TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	022
Well Depth:				Concession:	02
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
<hr/>					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501285.pdf				
<hr/>					
<u>Additional Detail(s) (Map)</u>					
<hr/>					
Well Completed Date:	1959/06/04				
Year Completed:	1959				
Depth (m):	34.4424				
Latitude:	45.4242591017854				
Longitude:	-75.6084419082097				
Path:	150\1501285.pdf				
<hr/>					
<u>Bore Hole Information</u>					
<hr/>					
Bore Hole ID:	10023328			Elevation:	70.389457
DP2BR:	4.00			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	452400.70
Code OB Desc:	Bedrock			North83:	5030262.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:	04-Jun-1959 00:00:00			UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<hr/>					
<u>Overburden and Bedrock Materials Interval</u>					
<hr/>					
Formation ID:	930991447				
Layer:	2				
Color:					
General Color:					
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:	17				
Mat2 Desc:	SHALE				
Mat3:					
Mat3 Desc:					
Formation Top Depth:	4.0				
Formation End Depth:	113.0				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991446			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		4.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501285			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571898			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039541			
Layer:		2			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		113			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039540			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991501285			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Set At: Static Level: 10.0 Final Level After Pumping: 26.0 Recommended Pump Depth: 20.0 Pumping Rate: 6.0 Flowing Rate: Recommended Pump Rate: 3.0 Levels UOM: ft Rate UOM: GPM Water State After Test Code: 2 Water State After Test: CLOUDY Pumping Test Method: 1 Pumping Duration HR: 0 Pumping Duration MIN: 30 Flowing: No					
<u>Water Details</u>					
Water ID: 933453979 Layer: 1 Kind Code: 3 Kind: SULPHUR Water Found Depth: 110.0 Water Found Depth UOM: ft					
5	1 of 1	W/105.0	72.9 / 0.03	GLOUCESTER CITY MAXIME ST./MEADOWBROOK RD. GLOUCESTER CITY ON	CA
Certificate #: 3-0253-94- Application Year: 94 Issue Date: 4/5/1994 Approval Type: Municipal sewage Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
6	1 of 4	E/110.0	73.2 / 0.34	2065 Ena Lane Ottawa ON	SPL
Ref No: 6835-9N8KXM Site No: NA Incident Dt: 2014/08/22 Year: Incident Cause: Leak/Break Incident Event: Contaminant Code: 35 Contaminant Name: METHANE GAS, COMPRESSED (NATURAL GAS) Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Not Anticipated Nature of Impact: Air Pollution; Human Health/Safety Receiving Medium: Receiving Env:					
Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Pipeline/Components Agency Involved: Nearest Watercourse: Site Address: 2065 Ena Lane Site District Office: Site Postal Code: Site Region: Site Municipality: Ottawa Site Lot: Site Conc: Northing:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
MOE Response: Referral to others Dt MOE Arvl on Scn: MOE Reported Dt: 2014/08/22 Dt Document Closed: 2014/09/03 Incident Reason: Operator/Human Error Site Name: tssa<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: TSSA: line strike 2065 Ena Contaminant Qty: 1 other - see incident description					
Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Air Spills - Gases and Vapours Source Type:					
6	2 of 4	E/110.0	73.2 / 0.34	Enbridge Gas Distribution Inc. 2065 Eric Street Ottawa ON	SPL
Ref No: 7430-BBJTVR Site No: NA Incident Dt: 4/24/2019 Year: Incident Cause: Incident Event: Leak/Break Contaminant Code: 35 Contaminant Name: NATURAL GAS (METHANE) Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: 1075 Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: Air MOE Response: No Dt MOE Arvl on Scn: MOE Reported Dt: 4/24/2019 Dt Document Closed: 6/29/2019 Incident Reason: Operator/Human Error Site Name: residential <UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: TSSA - Enbridge, 1.25" plastic main line damaged, made safe Contaminant Qty: 0 other - see incident description					
Discharger Report: Material Group: Health/Env Conseq: 2 - Minor Environment Client Type: Corporation Sector Type: Miscellaneous Communal Agency Involved: Nearest Watercourse: Site Address: 2065 Eric Street Site District Office: Ottawa Site Postal Code: Site Region: Eastern Site Municipality: Ottawa Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill Source Type: Pipeline/Components					
6	3 of 4	E/110.0	73.2 / 0.34	PIPELINE HIT - 1/2" 2065 ENA LANE,,OTTAWA,ON,K1B 4P3,CA ON	PINC
Incident ID: Incident No: 1464522 Incident Reported Dt: 8/22/2014 Type: FS-Pipeline Incident Status Code: Tank Status: Non Mandated Task No: Spills Action Centre: Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: Depth: Customer Acct Name: PIPELINE HIT - 1/2" Incident Address: 2065 ENA LANE,,OTTAWA,ON,K1B 4P3,CA Operation Type:					
Pipe Material: Fuel Category: Health Impact: Environment Impact: Property Damage: Service Interrupt: Enforce Policy: Public Relation: Pipeline System: PSIG: Attribute Category: Regulator Location: Method Details:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipeline Type: Regulator Type: Summary: Reported By: Affiliation: Occurrence Desc: Damage Reason: Notes:					
6	4 of 4	E/110.0	73.2 / 0.34	ENBRIDGE GAS INC 2065 ERIC CRES,,OTTAWA,ON,K1B 4P4,CA ON	PINC
Incident ID: Incident No: 2564914 Incident Reported Dt: 4/25/2019 Type: FS-Pipeline Incident Status Code: Tank Status: Non Mandated Task No: Spills Action Centre: Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: Depth: Customer Acct Name: ENBRIDGE GAS INC Incident Address: 2065 ERIC CRES,,OTTAWA,ON,K1B 4P4,CA Operation Type: Pipeline Type: Regulator Type: Summary: Reported By: Affiliation: Occurrence Desc: Damage Reason: Notes:					
Pipe Material: Fuel Category: Health Impact: Environment Impact: Property Damage: Service Interrupt: Enforce Policy: Public Relation: Pipeline System: PSIG: Attribute Category: Regulator Location: Method Details:					
7	1 of 2	SSW/111.6	72.9 / 0.03	lot 22 con 2 ON	WWIS
Well ID: 1501284 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: 6/5/1959 Selected Flag: True Abandonment Rec: Contractor: 4825 Form Version: 1 Owner: Street Name: County: OTTAWA Municipality: GLOUCESTER TOWNSHIP Site Info: Lot: 022 Concession: 02 Concession Name: OF Easting NAD83: Northing NAD83: Zone: UTM Reliability:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501284.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1959/05/27			
Year Completed:		1959			
Depth (m):		77.1144			
Latitude:		45.4238997526828			
Longitude:		-75.6083102228759			
Path:		150\1501284.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	10023327		Elevation:	70.526184	
DP2BR:	2.00		Elevrc:		
Spatial Status:			Zone:	18	
Code OB:	r		East83:	452410.70	
Code OB Desc:	Bedrock		North83:	5030222.00	
Open Hole:			Org CS:		
Cluster Kind:			UTMRC:	5	
Date Completed:	27-May-1959 00:00:00		UTMRC Desc:	margin of error : 100 m - 300 m	
Remarks:			Location Method:	p5	
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:	930991445				
Layer:	4				
Color:	3				
General Color:	BLUE				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	160.0				
Formation End Depth:	253.0				
Formation End Depth UOM:	ft				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	930991443				
Layer:	2				
Color:	8				
General Color:	BLACK				
Mat1:	17				
Most Common Material:	SHALE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	2.0				
Formation End Depth:	105.0				
Formation End Depth UOM:	ft				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991442			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		2.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991444			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		105.0			
Formation End Depth:		160.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501284			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571897			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039538			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:		930039539			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		253			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991501284			
Pump Set At:					
Static Level:		20.0			
Final Level After Pumping:		90.0			
Recommended Pump Depth:		90.0			
Pumping Rate:		1.0			
Flowing Rate:					
Recommended Pump Rate:		1.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453978			
Layer:		1			
Kind Code:		3			
Kind:		SULPHUR			
Water Found Depth:		250.0			
Water Found Depth UOM:		ft			
<u>7</u>	2 of 2	SSW/111.6	72.9 / 0.03	lot 22 con 2 ON	WWIS
Well ID:	1501291			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	4/6/1960
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	4825
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	GLOUCESTER TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	022
Well Depth:				Concession:	02
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501291.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1960/01/04			
Year Completed:		1960			
Depth (m):		121.3104			
Latitude:		45.4238997526828			
Longitude:		-75.6083102228759			
Path:		150\1501291.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		10023334	Elevation:		70.526184
DP2BR:		253.00	Elevrc:		
Spatial Status:			Zone:		18
Code OB:		r	East83:		452410.70
Code OB Desc:		Bedrock	North83:		5030222.00
Open Hole:			Org CS:		
Cluster Kind:			UTMRC:		5
Date Completed:		04-Jan-1960 00:00:00	UTMRC Desc:		margin of error : 100 m - 300 m
Remarks:			Location Method:		p5
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:		930991458			
Layer:		1			
Color:					
General Color:					
Mat1:		24			
Most Common Material:		PREV. DRILLED			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		253.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991459			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		253.0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Formation End Depth:		380.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991460			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		380.0			
Formation End Depth:		395.0			
Formation End Depth UOM:		ft			
 <u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991461			
Layer:		4			
Color:		8			
General Color:		BLACK			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		395.0			
Formation End Depth:		398.0			
Formation End Depth UOM:		ft			
 <u>Method of Construction & Well Use</u>					
Method Construction ID:		961501291			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
 <u>Pipe Information</u>					
Pipe ID:		10571904			
Casing No:		1			
Comment:					
Alt Name:					
 <u>Construction Record - Casing</u>					
Casing ID:		930039552			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20			
Casing Diameter:		5			
Casing Diameter UOM:		inch			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039553			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		398			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991501291			
Pump Set At:					
Static Level:		8.0			
Final Level After Pumping:		115.0			
Recommended Pump Depth:		100.0			
Pumping Rate:		5.0			
Flowing Rate:					
Recommended Pump Rate:		3.0			
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:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453985			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		395.0			
Water Found Depth UOM:		ft			

8	1 of 1	SSW/125.9	72.9 / 0.03	lot 22 con 2 ON	WWIS
Well ID:		1501287		Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:		Domestic		Date Received:	9/8/1959
Sec. Water Use:		0		Selected Flag:	True
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor:	4825
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	GLOUCESTER TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	022
Well Depth:				Concession:	02
Overburden/Bedrock:				Concession Name:	OF
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):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501287.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1959/06/12			
Year Completed:		1959			
Depth (m):		51.816			
Latitude:		45.423720758641			
Longitude:		-75.6081165634941			
Path:		150\1501287.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		10023330		Elevation:	70.800987
DP2BR:		10.00		Elevrc:	
Spatial Status:				Zone:	18
Code OB:		r		East83:	452425.70
Code OB Desc:		Bedrock		North83:	5030202.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:		12-Jun-1959 00:00:00		UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
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:		930991450			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		10.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991451			
Layer:		2			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		17			
Mat2 Desc:		SHALE			
Mat3:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation Top Depth:		10.0			
Formation End Depth:		170.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501287			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571900			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039545			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		170			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039544			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991501287			
Pump Set At:					
Static Level:		16.0			
Final Level After Pumping:		25.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		6.0			
Flowing Rate:					
Recommended Pump Rate:		3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		No			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
<u>Water Details</u>					
Water ID:		933453981			
Layer:		1			
Kind Code:		3			
Kind:		SULPHUR			
Water Found Depth:		155.0			
Water Found Depth UOM:		ft			
<hr/>					
<u>9</u>	1 of 1	WSW/130.2	71.9 / -0.97	ON	BORE
Borehole ID:	615063			Inclin FLG:	No
OGF ID:	215516005			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	JUL-1959			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.424347
Total Depth m:	92.4			Longitude DD:	-75.609274
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	452336
Drill Method:				Northing:	5030272
Orig Ground Elev m:	70.1			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	70				
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218400306			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	.9			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Clay			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	CLAY.				
Geology Stratum ID:	218400307			Mat Consistency:	
Top Depth:	.9			Material Moisture:	
Bottom Depth:	92.4			Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Limestone			Geologic Formation:	
Material 2:	Shale			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	LIMESTONE. UE. SAND. GREY. SLATE. GREY. 000670013100086CK. 45030RED. 00				
	**Note: Many records provided by the department have a truncated [Stratum Description] field.				
<u>Source</u>					
Source Type:	Data Survey			Source Appl:	Spatial/Tabular

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source Orig:	Geological Survey of Canada			Source Id:	1
Source Date:	1956-1972			Scale or Res:	Varies
Confidence:				Horizontal:	NAD27
Observatio:				Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Details:	File: OTTAWA2.txt RecordID: 07571 NTS_Sheet:				
Confiden 1:					
Source List					
Source Identifier:	1			Horizontal Datum:	NAD27
Source Type:	Data Survey			Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972			Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies				
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Originators:	Geological Survey of Canada				

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 1959/07/07
Year Completed: 1959
Depth (m): 92.3544
Latitude: 45.4243446805217
Longitude: -75.6092736969759
Path:

Bore Hole Information

Bore Hole ID:	10023333	Elevation:	70.054130
DP2BR:	3.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	452335.70
Code OB Desc:	Bedrock	North83:	5030272.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	07-Jul-1959 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Remarks:				Location Method:	p5
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: 930991456					
Layer: 1					
Color:					
General Color:					
Mat1: 05					
Most Common Material: CLAY					
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth: 0.0					
Formation End Depth: 3.0					
Formation End Depth UOM: ft					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: 930991457					
Layer: 2					
Color:					
General Color:					
Mat1: 15					
Most Common Material: LIMESTONE					
Mat2: 17					
Mat2 Desc: SHALE					
Mat3:					
Mat3 Desc:					
Formation Top Depth: 3.0					
Formation End Depth: 303.0					
Formation End Depth UOM: ft					
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID: 961501290					
Method Construction Code: 1					
Method Construction: Cable Tool					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID: 10571903					
Casing No: 1					
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID: 930039550					
Layer: 1					
Material: 1					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039551			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		303			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991501290			
Pump Set At:					
Static Level:		35.0			
Final Level After Pumping:		100.0			
Recommended Pump Depth:		100.0			
Pumping Rate:		1.0			
Flowing Rate:					
Recommended Pump Rate:		1.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453984			
Layer:		1			
Kind Code:		3			
Kind:		SULPHUR			
Water Found Depth:		290.0			
Water Found Depth UOM:		ft			

11	1 of 1	SW/139.2	71.9 / -0.97	lot 22 con 2 ON	WWIS
Well ID:					
1501288		Data Entry Status:			
Construction Date:		Data Src:			
Primary Water Use:		1			
Sec. Water Use:		Date Received:			
Domestic		9/8/1959			
Final Well Status:		Selected Flag:			
0		True			
Water Type:		Abandonment Rec:			
Casing Material:		4825			
Audit No:		Contractor:			
Tag:		1			
Construction Method:		Form Version:			
Elevation (m):		Owner:			
Elevation Reliability:		Street Name:			
		County:			
		OTTAWA			
		Municipality:			
		GLOUCESTER TOWNSHIP			
		Site Info:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth to Bedrock:				Lot:	022
Well Depth:				Concession:	02
Overburden/Bedrock:				Concession Name:	OF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501288.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		1959/06/23			
Year Completed:		1959			
Depth (m):		36.8808			
Latitude:		45.4238963472683			
Longitude:		-75.608949311576			
Path:		150\1501288.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		10023331		Elevation:	70.549926
DP2BR:		4.00		Elevrc:	
Spatial Status:				Zone:	18
Code OB:		r		East83:	452360.70
Code OB Desc:		Bedrock		North83:	5030222.00
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	5
Date Completed:		23-Jun-1959 00:00:00		UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:				Location Method:	p5
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:		930991453			
Layer:		2			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		17			
Mat2 Desc:		SHALE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		4.0			
Formation End Depth:		121.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991452			
Layer:		1			
Color:					
General Color:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		4.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501288			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571901			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039546			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		20			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039547			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		121			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991501288			
Pump Set At:					
Static Level:		6.0			
Final Level After Pumping:		95.0			
Recommended Pump Depth:		60.0			
Pumping Rate:		6.0			
Flowing Rate:					
Recommended Pump Rate:		3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453982			
Layer:		1			
Kind Code:		3			
Kind:		SULPHUR			
Water Found Depth:		110.0			
Water Found Depth UOM:		ft			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501286.pdf

Additional Detail(s) (Map)

Well Completed Date: 1959/06/05
Year Completed: 1959
Depth (m): 49.3776
Latitude: 45.423451076409
Longitude: -75.6080497560321
Path: 150\1501286.pdf

Bore Hole Information

Bore Hole ID:	10023329	Elevation:	70.715072
DP2BR:	10.00	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	452430.70
Code OB Desc:	Bedrock	North83:	5030172.00
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	05-Jun-1959 00:00:00	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:					
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991448			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		10.0			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		930991449			
Layer:		2			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		17			
Mat2 Desc:		SHALE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		10.0			
Formation End Depth:		162.0			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961501286			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10571899			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930039542			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth To:		20			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930039543			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		162			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991501286			
Pump Set At:					
Static Level:		16.0			
Final Level After Pumping:		25.0			
Recommended Pump Depth:		20.0			
Pumping Rate:		6.0			
Flowing Rate:					
Recommended Pump Rate:		3.0			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		0			
Pumping Duration MIN:		30			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933453980			
Layer:		1			
Kind Code:		3			
Kind:		SULPHUR			
Water Found Depth:		150.0			
Water Found Depth UOM:		ft			

13	1 of 1	ENE/159.3	74.2 / 1.34	ON	BORE
Borehole ID:	615070			Inclin FLG:	No
OGF ID:	215516012			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	JUN-1970			Municipality:	
Static Water Level:	0.3			Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.425713
Total Depth m:	-999			Longitude DD:	-75.606156
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	452581
Drill Method:				Northing:	5030422
Orig Ground Elev m:	71.4			Location Accuracy:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elev Reliabil Note: DEM Ground Elev m: 71.3 Concession: Location D: Survey D: Comments:				Accuracy: Not Applicable	
<u>Borehole Geology Stratum</u>					
Geology Stratum ID: 218400325 Top Depth: 0 Bottom Depth: 2.7 Material Color: Material 1: Sand Material 2: Silt Material 3: Material 4: Gsc Material Description: Stratum Description: SAND.		Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:			
Geology Stratum ID: 218400326 Top Depth: 2.7 Bottom Depth: Material Color: Red Material 1: Bedrock Material 2: Shale Material 3: Material 4: Gsc Material Description: Stratum Description:		Mat Consistency: Material Moisture: Material Texture: Non Geo Mat Type: Geologic Formation: Geologic Group: Geologic Period: Depositional Gen:			
		BEDROCK. WATER STABLE AT 233.4 FEET.01590 FEET.BEDROCK. 00086CK. 45030RED. 00 **Note: Many records provided by the department have a truncated [Stratum Description] field.			
<u>Source</u>					
Source Type: Data Survey Source Orig: Geological Survey of Canada Source Date: 1956-1972 Confidence: H Observatio: Source Name: Urban Geology Automated Information System (UGAIS) Source Details: File: OTTAWA2.txt RecordID: 075780 NTS_Sheet: 31G05H Confiden 1: Logged by professional. Exact and complete description of material and properties.		Source Appl: Spatial/Tabular Source Iden: 1 Scale or Res: Varies Horizontal: NAD27 Verticalda: Mean Average Sea Level			
<u>Source List</u>					
Source Identifier: 1 Source Type: Data Survey Source Date: 1956-1972 Scale or Resolution: Varies Source Name: Urban Geology Automated Information System (UGAIS) Source Originators: Geological Survey of Canada		Horizontal Datum: NAD27 Vertical Datum: Mean Average Sea Level Projection Name: Universal Transverse Mercator			
14	1 of 2	N/178.2	74.2 / 1.34	MOTELAC SERVICES & CONSTRUCTION LTD 1659 MEADOWBROOK RD.,OTTAWA,ON,K1B 4W6,CA ON	PINC
Incident ID: Incident No: 1761012 Incident Reported Dt: 11/25/2015 Type: FS-Pipeline Incident Status Code:		Pipe Material: Fuel Category: Natural Gas Health Impact: Environment Impact: Property Damage: Yes			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<div> <div> Tank Status: Task No: Spills Action Centre: Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: Depth: Customer Acct Name: Incident Address: Operation Type: Pipeline Type: Regulator Type: Summary: Reported By: Affiliation: Occurrence Desc: Damage Reason: Notes: </div> <div> Pipeline Damage Reason Est 5952473 2015/11/26 MOTELAC SERVICES & CONSTRUCTION LTD 1659 MEADOWBROOK RD., OTTAWA, ON, K1B 4W6, CA 1659 MEADOWBROOK ROAD, OTTAWA - PIPELINE HIT - 2" Peter O'Gorman - ENBRIDGE Excavation practices not sufficient </div> <div> Service Interrupt: Enforce Policy: Public Relation: Pipeline System: PSIG: Attribute Category: Regulator Location: Method Details: </div> <div> Yes FS-Perform P-line Inc Invest E-mail </div> </div>					
14	2 of 2	N/178.2	74.2 / 1.34	Enbridge Gas Distribution Inc. 1659 Meadowbrook Road Ottawa ON	SPL
<div> <div> Ref No: Site No: Incident Dt: Year: Incident Cause: Incident Event: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: Dt Document Closed: Incident Reason: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty: </div> <div> 3426-A4KSLF NA 11/24/2015 35 NATURAL GAS (METHANE) No 11/24/2015 Operator/Human Error Line Strike<UNOFFICIAL> TSSA: Enbridge - 2" pl intermediate press. main dmgd; made safe 0 other - see incident description </div> <div> Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type: </div> <div> Unknown / N/A 1659 Meadowbrook Road Ottawa TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill </div> </div>					
15	1 of 1	ENE/192.5	74.7 / 1.88	ON	BORE
<div> <div> Borehole ID: OGF ID: Status: Type: Use: Completion Date: Static Water Level: Primary Water Use: </div> <div> 615071 215516013 Borehole Geotechnical/Geological Investigation JUN-1970 Not Used </div> <div> Inclin FLG: SP Status: Surv Elev: Piezometer: Primary Name: Municipality: Lot: Township: </div> <div> No Initial Entry No No </div> </div>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Sec. Water Use:			Latitude DD:		45.425716
Total Depth m:			Longitude DD:		-75.605645
Depth Ref:			UTM Zone:		18
Depth Elev:			Easting:		452621
Drill Method:			Northing:		5030422
Orig Ground Elev m:			Location Accuracy:		
Elev Reliabil Note:			Accuracy:		Not Applicable
DEM Ground Elev m:					
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:			Mat Consistency:		
Top Depth:			Material Moisture:		
Bottom Depth:			Material Texture:		
Material Color:			Non Geo Mat Type:		
Material 1:			Geologic Formation:		
Material 2:			Geologic Group:		
Material 3:			Geologic Period:		
Material 4:			Depositional Gen:		
Gsc Material Description:					
Stratum Description:			BEDROCK. BLACK,WEATHERED. 000100140008910030RED. 00005004000300540190100 020 00065 **Note: Many records provided by the department have a truncated [Stratum Description] field.		
Geology Stratum ID:			Mat Consistency:		
Top Depth:			Material Moisture:		
Bottom Depth:			Material Texture:		
Material Color:			Non Geo Mat Type:		
Material 1:			Geologic Formation:		
Material 2:			Geologic Group:		
Material 3:			Geologic Period:		
Material 4:			Depositional Gen:		
Gsc Material Description:					
Stratum Description:			SAND. DARK,GREY,COMPACT.		
Geology Stratum ID:			Mat Consistency:		
Top Depth:			Material Moisture:		
Bottom Depth:			Material Texture:		
Material Color:			Non Geo Mat Type:		
Material 1:			Geologic Formation:		
Material 2:			Geologic Group:		
Material 3:			Geologic Period:		
Material 4:			Depositional Gen:		
Gsc Material Description:					
Stratum Description:			ARTIFICIAL. BROWN.		
<u>Source</u>					
Source Type:			Source Appl:		
Source Orig:			Source Iden:		
Source Date:			Scale or Res:		
Confidence:			Horizontal:		
Observatio:			Verticalda:		
Source Name:					
Source Details:					
Confiden 1:					
<u>Source List</u>					
Source Identifier:			Horizontal Datum:		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source Type:		Data Survey		Vertical Datum:	Mean Average Sea Level
Source Date:		1956-1972		Projection Name:	Universal Transverse Mercator
Scale or Resolution:		Varies			
Source Name:		Urban Geology Automated Information System (UGAIS)			
Source Originators:		Geological Survey of Canada			
16	1 of 1	SE/193.6	71.9 / -0.97	Superior Business Forms Inc. 1467 Northdale St Gloucester ON K1B 4G7	SCT
Established:		1996			
Plant Size (ft²):					
Employment:					
--Details--					
Description:		All Other Textile Product Mills			
SIC/NAICS Code:		314990			
Description:		Digital Printing			
SIC/NAICS Code:		323115			
Description:		Other Printing			
SIC/NAICS Code:		323119			
17	1 of 1	W/205.2	71.9 / -0.97	City of Ottawa Meadowbrook Rd. at Cedarcroft Crescent Ottawa ON	SPL
Ref No:		5272-9N5LBR		Discharger Report:	
Site No:		NA		Material Group:	
Incident Dt:		2014/08/19		Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:		Leak/Break		Sector Type:	Sewer (Private or Municipal)
Incident Event:				Agency Involved:	
Contaminant Code:		14		Nearest Watercourse:	
Contaminant Name:		TAR		Site Address:	Meadowbrook Rd. at Cedarcroft Crescent
Contaminant Limit 1:				Site District Office:	
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:				Site Region:	
Environment Impact:		Not Anticipated		Site Municipality:	Ottawa
Nature of Impact:		Other Impact(s)		Site Lot:	
Receiving Medium:				Site Conc:	
Receiving Env:				Northing:	
MOE Response:		No Field Response		Easting:	
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:		2014/08/19		Site Map Datum:	
Dt Document Closed:		2014/11/21		SAC Action Class:	Land Spills
Incident Reason:		Equipment Failure		Source Type:	
Site Name:		Roadway Intersection<UNOFFICIAL>			
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:		Canadian Property Stars: 45 L tar load to cb			
Contaminant Qty:		45 L			
18	1 of 1	W/218.3	71.9 / -0.97	ASGO MANAGEMENT CORP. 1390 CEDARCROFT CRES. OTTAWA ON K1B 5E1	GEN
Generator No:		ON0222201		PO Box No:	
Status:				Country:	
Approval Years:		86,87,88,89,90,92,93,94		Choice of Contact:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contam. Facility: MHSW Facility: SIC Code: SIC Description:		0000	*** NOT DEFINED ***	Co Admin: Phone No Admin:	
19	1 of 2	SE/249.6	71.9 / -0.97	1481 Northdale Court Ottawa ON	SPL
Ref No: Site No: Incident Dt: Year: Incident Cause: Incident Event: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: Dt Document Closed:		8420-9ALM5S 2013/08/15 Leak/Break 35 NATURAL GAS (METHANE) Confirmed Air Pollution Referral to others 2013/08/15 2013/08/24		Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class:	 Pipeline/Components 1481 Northdale Court Ottawa TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Incident Reason: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty:		Operator/Human Error Enbrdige Gas: 1-1/4 " plastic gasline<UNOFFICIAL> TSSA: 1-1/4 in.plastic gas service damage 0 other - see incident description		Source Type:	
19	2 of 2	SE/249.6	71.9 / -0.97	PIPELINE HIT - 1 ¼" 1481 NORTHDALE STREET,,OTTAWA,ON,K1B 4G7,CA ON	PINC
Incident ID: Incident No: Incident Reported Dt: Type: Status Code: Tank Status: Task No: Spills Action Centre: Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: Depth: Customer Acct Name: Incident Address: Operation Type: Pipeline Type: Regulator Type: Summary: Reported By: Affiliation: Occurrence Desc: Damage Reason:		1162558 8/15/2013 FS-Pipeline Incident Pipeline Damage Reason Est 4584845 2013/11/14 PIPELINE HIT - 1 ¼" 1481 NORTHDALE STREET,,OTTAWA,ON,K1B 4G7,CA 1481 NORTHDALE STREET, OTTAWA - PIPELINE HIT - 1 ¼" Scott Parrington - Enbridge Facility marking or location not sufficient		Pipe Material: Fuel Category: Health Impact: Environment Impact: Property Damage: Service Interrupt: Enforce Policy: Public Relation: Pipeline System: PSIG: Attribute Category: Regulator Location: Method Details:	 Natural Gas Yes Yes FS-Perform P-line Inc Invest E-mail

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
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Notes:

Unplottable Summary

Total: 7 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	GLOUCESTER CITY TELESAT CRT. NOTICE10/88	MEADOWBROOK RD. OUTLET & POND	GLOUCESTER CITY ON	
RSC		Part Lot 23, Township of Gloucester	Ottawa ON	
RSC		Part Lot 23	Ottawa ON	
SPL	PRIVATE RESIDENCE	CEDARCROFT ST. MOTOR VEHICLE (OPERATING FLUID)	GLOUCESTER CITY ON	
WWIS		lot 22	ON	
WWIS		lot 22	ON	
WWIS		lot 23	ON	

Unplottable Report

Site: GLOUCESTER CITY TELESAT CRT. NOTICE10/88
MEADOWBROOK RD. OUTLET & POND GLOUCESTER CITY ON

Database:
CA

Certificate #: 3-2208-87-
Application Year: 87
Issue Date: 1/26/1988
Approval Type: Municipal sewage
Status: Approved in 1988
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Part Lot 23, Township of Gloucester Ottawa ON

Database:
RSC

RSC ID:		Cert Date:	
RA No:		Cert Prop Use No:	
RSC Type:		Intended Prop Use:	
Curr Property Use:		Qual Person Name:	
Ministry District:	Ottawa	Stratified (Y/N):	
Filing Date:	07/05/01	Audit (Y/N):	
Date Ack:		Entire Leg Prop. (Y/N):	
Date Returned:	07/23/01	Accuracy Estimate:	
Restoration Type:		Telephone:	
Soil Type:		Fax:	
Criteria:		Email:	
CPU Issued Sect			
1686:			
Asmt Roll No:			
Prop ID No (PIN):			
Property Municipal Address:			
Mailing Address:			
Latitude & Latitude:			
UTM Coordinates:			
Consultant:	DST Consulting Engineers Inc.		
Legal Desc:			
Measurement Method:			
Applicable Standards:			
RSC PDF:			

Site: Part Lot 23 Ottawa ON

Database:
RSC

RSC ID:		Cert Date:	
RA No:		Cert Prop Use No:	
RSC Type:		Intended Prop Use:	
Curr Property Use:		Qual Person Name:	
Ministry District:	Ottawa	Stratified (Y/N):	N
Filing Date:	07/05/01	Audit (Y/N):	
Date Ack:	08/14/01	Entire Leg Prop. (Y/N):	
Date Returned:		Accuracy Estimate:	
Restoration Type:	Generic	Telephone:	
Soil Type:	Medium/Fine	Fax:	

Criteria: Res/parkland + Nonpotable

Email:

CPU Issued Sect

1686:

Asmt Roll No:

Prop ID No (PIN):

Property Municipal Address:

Mailing Address:

Latitude & Latitude:

UTM Coordinates:

Consultant:

DST Consulting Engineers Inc.

Legal Desc:

Measurement Method:

Applicable Standards:

RSC PDF:

Site: PRIVATE RESIDENCE
CEDARCROFT ST. MOTOR VEHICLE (OPERATING FLUID) GLOUCESTER CITY ON

Database:
SPL

Ref No: 105326

Site No:

Incident Dt: 9/17/1994

Year:

Incident Cause: OTHER CONTAINER LEAK

Incident Event:

Contaminant Code:

Contaminant Name:

Contaminant Limit 1:

Contam Limit Freq 1:

Contaminant UN No 1:

Environment Impact: POSSIBLE

Nature of Impact: Water course or lake

Receiving Medium: LAND / WATER

Receiving Env:

MOE Response:

Dt MOE Arvl on Scn:

MOE Reported Dt: 9/17/1994

Dt Document Closed:

Incident Reason: ERROR

Site Name:

Site County/District:

Site Geo Ref Meth:

Incident Summary: RESIDENT: 20L GASOLINE LEAK FROM CAR TO ROAD & SEWER; FLUSHED BY FIRE D.

Contaminant Qty:

Discharger Report:

Material Group:

Health/Env Conseq:

Client Type:

Sector Type:

Agency Involved:

Nearest Watercourse:

Site Address:

Site District Office:

Site Postal Code:

Site Region:

Site Municipality: 20105

Site Lot:

Site Conc:

Northing:

Easting: FD, WORKS

Site Geo Ref Accu:

Site Map Datum:

SAC Action Class:

Source Type:

Site:
lot 22 ON

Database:
WWIS

Well ID: 1527659

Construction Date:

Primary Water Use: Domestic

Sec. Water Use:

Final Well Status: Water Supply

Water Type:

Casing Material:

Audit No: 116662

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: 2/25/1994

Selected Flag: True

Abandonment Rec:

Contractor: 1517

Form Version: 1

Owner:

Street Name:

County:

Municipality: OTTAWA GLOUCESTER TOWNSHIP

Site Info:

Lot: 022

Concession:

Concession Name:

Easting NAD83:

Northing NAD83:

Zone:

UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049286
DP2BR: 24.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 27-Nov-1993 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

**Overburden and Bedrock
Materials Interval**

Formation ID: 931067346
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 0.0
Formation End Depth: 24.0
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931067347
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 26
Mat2 Desc: ROCK
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 24.0
Formation End Depth: 75.0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112609
Layer: 1
Plug From: 0
Plug To: 23
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961527659
Method Construction Code: 1

Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10597856
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086095
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 27
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991527659
Pump Set At:
Static Level: 22.0
Final Level After Pumping: 30.0
Recommended Pump Depth: 50.0
Pumping Rate: 30.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934386113
Test Type: Draw Down
Test Duration: 30
Test Level: 28.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934904231
Test Type: Draw Down
Test Duration: 60
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934655860
Test Type: Draw Down
Test Duration: 45
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934111297
Test Type: Draw Down
Test Duration: 15
Test Level: 25.0
Test Level UOM: ft

Water Details

Water ID: 933487180
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 60.0
Water Found Depth UOM: ft

Site:

lot 22 ON

Database:

WWIS

Well ID: 1521468
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 04608
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: 7/6/1987
Selected Flag: True
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 022
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043290
DP2BR: 56.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 30-Apr-1987 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931048156
Layer: 3
Color: 2
General Color: GREY

Mat1: 14
Most Common Material: HARDPAN
Mat2: 13
Mat2 Desc: BOULDERS
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 35.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931048158
Layer: 5
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2: 73
Mat2 Desc: HARD
Mat3:
Mat3 Desc:
Formation Top Depth: 56.0
Formation End Depth: 125.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931048155
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 17.0
Formation End Depth: 35.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931048157
Layer: 4
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 50.0
Formation End Depth: 56.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931048154
Layer: 1

Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 17.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961521468
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591860
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930075598
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 125
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930075597
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 59
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521468
Pump Set At:
Static Level: 15.0
Final Level After Pumping: 35.0
Recommended Pump Depth: 60.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 5.0
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: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934651778
Test Type: Draw Down
Test Duration: 45
Test Level: 35.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390634
Test Type: Draw Down
Test Duration: 30
Test Level: 35.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934908869
Test Type: Draw Down
Test Duration: 60
Test Level: 35.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934106534
Test Type: Draw Down
Test Duration: 15
Test Level: 35.0
Test Level UOM: ft

Water Details

Water ID: 933479044
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 122.0
Water Found Depth UOM: ft

Site:
lot 23 ON

Database:
[WWIS](#)

Well ID: 1520631
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: NA
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:

Data Entry Status:
Data Src: 1
Date Received: 8/12/1986
Selected Flag: True
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 023
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:

Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042473
DP2BR: 19.00
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 05-May-1986 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931045366
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 19.0
Formation End Depth: 63.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931045365
Layer: 2
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2: 12
Mat2 Desc: STONES
Mat3:
Mat3 Desc:
Formation Top Depth: 15.0
Formation End Depth: 19.0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931045364
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:

Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961520631
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591043
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930074135
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930074136
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 63
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991520631
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 30.0
Recommended Pump Depth: 30.0
Pumping Rate: 20.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934648403
Test Type:
Test Duration: 45
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934907164
Test Type:
Test Duration: 60
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934112517
Test Type:
Test Duration: 15
Test Level: 30.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934387380
Test Type:
Test Duration: 30
Test Level: 30.0
Test Level UOM: ft

Water Details

Water ID: 933477931
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 58.0
Water Found Depth UOM: ft

Water Details

Water ID: 933477930
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
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 2020

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-Oct 2018

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

Aboveground Storage Tanks:

Provincial

[AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

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-Dec 31, 2020

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 2018

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*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2018

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors:

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, 2020

Chemical Register:

Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Dec 31, 2020

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 2012 -Aug 2021

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-Jul 2021

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- Aug 31, 2021

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 - Sep 2020

Delisted Fuel Tanks:

Provincial

[DTNK](#)

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: May 31, 2021

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- Aug 31, 2021

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- Aug 31, 2021

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- Aug 31, 2021

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-Jun 30, 2021

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 ERIIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial

EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of Expired Fuels Safety Facilities:

Provincial

EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2020

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. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Aug 2021

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 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal

FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial

FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

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-Apr 30, 2021

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 2019

TSSA Historic Incidents:

Provincial

HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The 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, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

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*

Fuel Oil Spills and Leaks:

Provincial

INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: 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 include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

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-Dec 2020

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, 2019

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-Apr 2018

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 Canada Energy Regulator (CER) - previously 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-Jun 30, 2021

National Energy Board Wells:

Federal

NEBP

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

OGWE

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-Feb 28, 2021**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-Jan 2021**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-Aug 31, 2021**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, 2009-2014**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: Oct 2011- Aug 31, 2021

Pipeline Incidents:

Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing is an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

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- Aug 31, 2021

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: 1986-1990, 1992-2018

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-Aug 2021

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-Dec 31, 2020

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

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. 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-Aug 2020

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, 2018

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 - Dec 2020

Variances for Abandonment of Underground Storage Tanks:

Provincial

[VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered 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.

Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

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 ERIS'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- Aug 31, 2021

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 30th, 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 ERIS'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: Apr 30, 2021

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.

EXP Services Inc.

Nemorin Group Limited

Phase One Environmental Site Assessment

1568 Meadowbrook Road, Ottawa, Ontario

OTT-21019403-A0

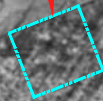
November 16, 2021

Appendix F: Aerial Photographs



PHASE ONE
PROPERTY
BOUNDARY

PHASE ONE
STUDY AREA



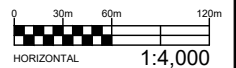
LEGEND



PROPERTY BOUNDARY



STUDY AREA (250m)



EXP Services Inc. www.exp.com

t: +1.613.688.1899 | f: +1.613.225.7337

2650 Queensview Drive, Suite 100

Ottawa, ON K2B 8H6, Canada

DATE
OCTOBER 2021

CLIENT:

NEMORIN GROUP LIMITED

project no.

OTT-21019403-A0

DESIGN
MM

CHECKED
MM

scale

1:4,000

DRAWN BY
TM

TITLE:

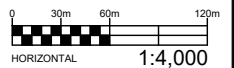
1958 AERIAL PHOTOGRAPH
1568 MEADOWBROOK ROAD, OTTAWA, ONTARIO

FIG F-1



LEGEND

- PROPERTY BOUNDARY
- STUDY AREA (250m)



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Ottawa, ON K2B 8H6, Canada

DATE
OCTOBER 2021

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CLIENT:

NEMORIN GROUP LIMITED

TITLE:

1965 AERIAL PHOTOGRAPH
1568 MEADOWBROOK ROAD, OTTAWA, ONTARIO

project no.

OTT-21019403-A0

scale

1:4,000

FIG F-2



PHASE ONE
PROPERTY
BOUNDARY

PHASE ONE
STUDY AREA



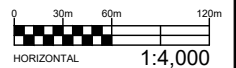
LEGEND



PROPERTY BOUNDARY



STUDY AREA (250m)



EXP Services Inc. www.exp.com

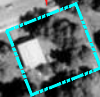
t: +1.613.688.1899 | f: +1.613.225.7337
2650 Queensview Drive, Suite 100
Ottawa, ON K2B 8H6, Canada

DATE OCTOBER 2021		CLIENT: NEMORIN GROUP LIMITED		project no. OTT-21019403-A0
DESIGN MM	CHECKED MM	TITLE: 1976 AERIAL PHOTOGRAPH		scale 1:4,000
DRAWN BY TM		1568 MEADOWBROOK ROAD, OTTAWA, ONTARIO		FIG F-3



PHASE ONE
PROPERTY
BOUNDARY

PHASE ONE
STUDY AREA



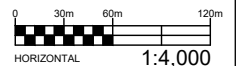
LEGEND



PROPERTY BOUNDARY



STUDY AREA (250m)



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Ottawa, ON K2B 8H6, Canada

DATE
OCTOBER 2021

CLIENT:

NEMORIN GROUP LIMITED

project no.

OTT-21019403-A0

DESIGN
MM

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MM

TITLE:

1991 AERIAL PHOTOGRAPH

scale

1:4,000

DRAWN BY
TM

1568 MEADOWBROOK ROAD, OTTAWA, ONTARIO



FIG F-4

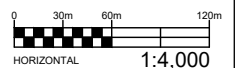


PHASE ONE
PROPERTY
BOUNDARY

PHASE ONE
STUDY AREA

LEGEND

-  PROPERTY BOUNDARY
-  STUDY AREA (250m)



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Ottawa, ON K2B 8H6, Canada

DATE
OCTOBER 2021

DESIGN
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CLIENT:

NEMORIN GROUP LIMITED

TITLE:

2007 AERIAL PHOTOGRAPH
1568 MEADOWBROOK ROAD, OTTAWA, ONTARIO

project no.

OTT-21019403-A0

scale

1:4,000



FIG F-5

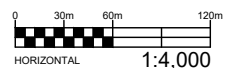


PHASE ONE
PROPERTY
BOUNDARY

PHASE ONE
STUDY AREA

LEGEND

-  PROPERTY BOUNDARY
-  STUDY AREA (250m)



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DATE
OCTOBER 2021

CLIENT:

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project no.

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DESIGN
MM

CHECKED
MM

TITLE:

2019 AERIAL PHOTOGRAPH

scale

1:4,000

DRAWN BY
TM

1568 MEADOWBROOK ROAD, OTTAWA, ONTARIO

FIG F-6

EXP Services Inc.

Nemorin Group Limited

Phase One Environmental Site Assessment

1568 Meadowbrook Road, Ottawa, Ontario

OTT-21019403-A0

November 16, 2021

Appendix G: Site Photographs

EXP Services Inc.

*Nemorin Group Limited
Phase One Environmental Site Assessment
1568 Meadowbrook Road, Ottawa, Ontario
OTT-21019403-A0
November 16, 2021*



Photograph No. 1

View of the front of the property looking south.



Photograph No. 2

View of potential former location of furnace oil AST underneath the stairwell.

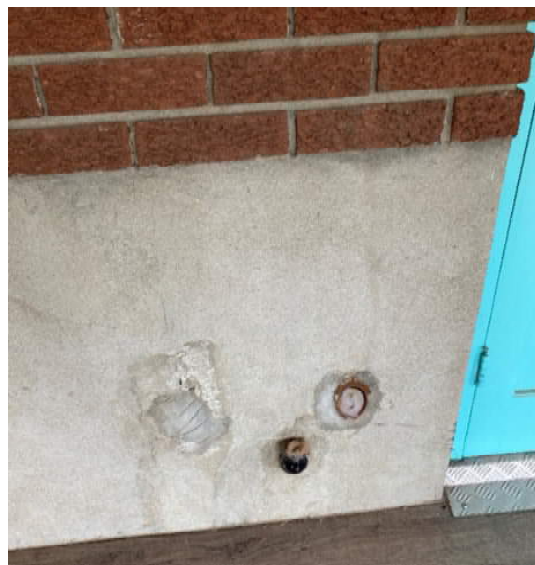
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Phase One Environmental Site Assessment
1568 Meadowbrook Road, Ottawa, Ontario
OTT-21019403-A0
November 16, 2021*



Photograph No. 3

View location of former vent/fill pipes. Vent/fill pipes have been cut and holes filled with silicone.



Photograph No. 4

View location of former vent/fill pipes. Vent/fill pipes holes have been filled. This area is within the solarium.

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OTT-21019403-A0
November 16, 2021*



Photograph No. 5

View of adjacent residential properties to the east.



Photograph No. 6

View of adjacent residential properties to the west