Phase One Environmental Site Assessment
1927 Maple Grove Road, Stittsville, Ontario

Client:
Latitude Homes Inc.
190 Lisgar Street
Ottawa, Ontario K2P 0C4

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Project Name:
Phase One Environmental Site Assessment 1927 Maple Grove Road, Stittsville, Ontario

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Executive Summary

EXP Services Inc. (EXP) was retained by Latitude Homes Inc. to complete a Phase One Environmental Site Assessment (ESA) of the property located at 1927 Maple Gove Road, Stittsville, Ontario hereinafter referred to as the 'Phase One property'. At the time of the investigation, a single two-storey house with a pool, gravel driveway and parking area, and landscaped areas were present on the Phase One property.

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.

The most recent use of the property is for residential purposes. It is proposed that the current building on the Phase One property be demolished and replaced with a multiunit residential townhouse complex. To support the site plan approval application, the City of Ottawa requires that the Phase One ESA be prepared in accordance with Regulation 153/04.

The Phase One property has a municipal address of 1927 Maple Grove Road in Stittsville, Ontario. The Phase One property is located approximately 10 kilometres (km) southwest of the Ottawa River on the north side of Maple Grove Road and is currently used for residential purposes. The Phase One property is rectangular in shape with an area of approximately 2.2 acres (0.89 hectares) and is occupied by a two-storey house.

The legal description of the Phase One property is described as PT LT 1 CON 1 HUNTLEY PT 1, 5R11374; WEST CARLETON. The property identification number (PIN) for the site is 04487-0346. The approximate Universal Transverse Mercator (UTM) coordinates for the Phase One property centroid are Zone 18, 426994 m E and 5014815 m N.

Based on a review of historical aerial photographs, historical maps, fire insurance plans and other records, it appears that construction of the residence on the Phase One property occurred in 1973. A water well was installed on the Phase One property in June 1973, when the property was owned by Julia Construction Limited. A house is visible on the property in the 1976 aerial photograph and the property was owned continuously by William George Maclean Bullen and Rosemarie Bullen from December 31, 1973 to March 5, 1987.

The original building has remained on the Phase One property until present and has been used for residential purposes. The Phase One property was used for agricultural purposes before being developed for residential purposes, but no buildings were present. The house has two storeys and includes a garage, a basement and an attic. A gravel driveway is also present. Vegetation covers the remainder of the Phase One property. There are a storage shed and a swimming pool on the property.

The nearest surface water body to the Phase One property is a branch of Carp River, located approximately 500 m to the west. The inferred groundwater flow direction is northeasterly towards the Ottawa River, which is located approximately 10 km to the northeast of the Phase One property.

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

There was one potable water well identified on the Phase One property. Additionally, several potable water wells were identified within the Phase One study area.

No on-site or off-site potentially contaminating activities (PCA) were identified on the Phase One property or in the Phase One study area. Therefore, no areas of potential environmental concern (APEC) were identified on the Phase One property.

The Qualified Person who oversaw this work, Patricia Stelmack, M.Sc., P.Eng., does not recommend that a Phase Two Environmental Site Assessment be undertaken at the Phase One property because there were no PCA identified within the Phase One study area and therefore, there were no APEC on the Phase One property.

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.

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 Latitude Homes Inc. to complete a Phase One Environmental Site Assessment (ESA) of the property located at 1927 Maple Gove Road, Stittsville, Ontario hereinafter referred to as the 'Phase One property'. At the time of the investigation, a single two-storey house with a pool, gravel driveway and parking area, and landscaped areas were present on the Phase One property.

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.

The most recent use of the property is for residential purposes. It is proposed that the current building on the Phase One property be demolished and replaced with a multiunit residential townhouse complex. To support the site plan approval application, the City of Ottawa requires that the Phase One ESA be prepared in accordance with Regulation 153/04.

EXP personnel who conducted assessment work for this project included Patricia Stelmack, M.Sc., P.Eng., and Oliver Vukov, M.Sc. An outline of their qualifications is provided in Appendix A.

1.2 Phase One Property Information

The Phase One property has a municipal address of 1927 Maple Grove Road in Stittsville, Ontario. The Phase One property is located approximately 10 kilometres (km) southwest of the Ottawa River on the north side of Maple Grove Road and is currently used for residential purposes. The Phase One property is rectangular in shape with an area of approximately 2.2 acres (0.89 hectares) and is occupied by a two-storey house. A design plan that illustrates the potential future development is provided in Appendix B.

The legal description of the Phase One property is described as PT LT 1 CON 1 HUNTLEY PT 1, 5R11374; WEST CARLETON. The property identification number (PIN) for the site is 04487-0346. The approximate Universal Transverse Mercator (UTM) coordinates for the Phase One property centroid are Zone 18, 426994 m E and 5014815 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.

Authorization to proceed with this investigation was provided by Carmine Zayoun and Raad Akrawi on behalf of Latitude Homes Inc. Contact information for Mr. Akrawi is 190 Lisgar Street, Ottawa, Ontario, K2P 0C4.

The Phase One property site location and site layout are shown on Figure 1 and Figure 2 in Appendix C, respectively.

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.

According to the City of Ottawa GeoOttawa on-line mapping tool, the Phase One property is zoned as a Development Reserve Zone (DR). The surrounding properties to the north, east and west of the Phase One property are also designated as development reserve zones and properties to the south are zoned for residential use. The Phase One property is enveloped to the north, east and west by residential dwellings and undeveloped land and to the south by Maple Grove Road and several residential neighborhoods.

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, historical maps, fire insurance plans and other records, it appears that construction of the residence on the Phase One property occurred in 1973. A water well was installed on the Phase One property in June 1973, when the property was owned by Julia Construction Limited. A house is visible on the property in the 1976 aerial photograph and the property was owned continuously by William George Maclean Bullen and Rosemarie Bullen from December 31, 1973 to March 5, 1987.

3.3 Fire Insurance Plans

A search of the Catalogue of Canadian Fire Insurance Plans 1875-1975 (Catalogue) was conducted to determine if fire insurance plans for the Phase One property existed. No fire insurance plans covering the Phase One property or surrounding area were found.

3.4 Chain of Title

A chain of title was requested from Read Abstracts Limited for the Phase One property. A chain of title search provides a list of property owners and the dates when they owned them. The property was patented by the Crown on January 17, 1828 and was owned continuously by individuals since that time, except for a brief time in 1973, when it was owned by Julia Construction Limited.

3.5 Environmental Reports

There were no previous environmental and/or geotechnical reports pertaining to the Phase One property available for review.

3.6 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.

3.6.1 Ontario Ministry of the Environment, Conservation and Parks Records

On October 20, 2020, records pertaining to the site 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.

3.6.2 Historical Land Use Inventory

On October 22, 2020, records pertaining to the site were requested from the City of Ottawa for the Historical Land Use Inventory (HLUI) through the *Municipal Freedom of Information and Protection of Privacy Act* (FOI). A response dated November 24, 2020 was received. A copy of the response is provided in Appendix D.

No activities associated with the Phase One property were identified.

A quarry and a log home construction facility were potentially identified to be within the Phase One study area, however since single family homes are now located where both of these facilities were shown to be, it is unlikely that these former facilities, if they existed where they are shown to be, have adversely affected the Phase One property.

3.6.3 Environmental Registry

On October 19, 2020, the MECP Environmental Registry website was searched for postings in the vicinity of the Phase One property. Search parameters included: “Maple Grove”, “Stittsville”, “Johnwoods” and “Alon”. Four postings were listed for properties within the Phase One study area. All four of these postings relate to instruments and permits issued to developers, provided conditions related to endangered species are met as residential subdivisions are constructed on the south side of Maple Grove Road. Three of the postings pertain to the protection of butternut trees. Copies of the listings are included in Appendix D.

3.6.4 Environmental Access

On October 19, 2020, the MECP Environmental Access website was searched for postings within the Phase One study area. One Environmental Compliance Approval (ECA) with number 3430-AXNLMK was issued to Mattamy (Fairwinds West) Limited on April 13, 2018. The ECA grants Mattamy (Fairwinds West) Limited ability to construct several sanitary sewers on Johnwoods Street and to redirect discharge to existing sanitary sewers located on Maple Grove Road. Since the ECA specified implementation of control measures for the proper construction and operation of these sanitary sewers, it is unlikely that the construction and operation of these sewers poses an environmental concern to the Phase One property.

Copy of the listed ECA is included in Appendix D.

3.6.5 Hazardous Waste Information Network

On October 19, 2020, the MECP Hazardous Waste Information Network (HWIN) website was searched for registered waste generators within the Phase One study area. Search parameters included “Maple Grove”, “Maple”, “Johnwoods” “Alon” and “Stittsville” and all of the other commercial establishments listed in the ERIS report.

The HWIN database did not identify any generators within the Phase One property or the Phase One study area.

3.6.6 Records of Site Condition

On October 19, 2020, the MECP Brownfields Registry website was searched for postings of Records of Site Condition (RSC) within the Phase One study area. Search parameters included “Maple Grove”, “Hazeldean”, “Johnwoods” and “Alon”. No RSC fillings were identified in the Phase One study area.

3.6.7 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.

3.6.8 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.

3.6.9 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.

3.6.10 Street Directories

On October 22, 2020, 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.

To date, no response has been received, as library reference sections remain closed due to the ongoing COVID-19 pandemic.

3.7 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. There were no listings for the Phase One property.

A summary of the more significant findings for the Phase One Study area are provided below. A copy of the EcoLog ERIS report is provided in Appendix E.

Location	Proximity to the Phase One Property	Description	Database	Environmental Concern to Phase One Property (Yes/No) & Rationale
61 Mika Street	40 m southeast	On August 20, 2019, natural gas discharged to air from a service line strike.	Ontario Spills	No - Natural gas had discharged to the atmosphere.
40 Sweetbay Circle	135 m southeast	On October 11, 2016, natural gas discharged to air from a service line strike.	Pipeline Incidents; Ontario Spills	No - Natural gas had discharged to the atmosphere.
Maple Grove Road and Alon Street	130 m southwest	On October 1, 1998, approximately 387 L of transformer oil had spilled to the ground. The fluid did not contain PCBs and the impacted soil was subsequently cleaned.	Ontario Spills	No – The spill was well contained, and the oil was cleaned up.

Location	Proximity to the Phase One Property	Description	Database	Environmental Concern to Phase One Property (Yes/No) & Rationale
287 Denali Way	190 m southwest	On December 21, 2013, unknown amount of gasoline was spilled to the catch basin	Ontario Spills	No – The gasoline entered into a catch basin, from where it would have remained in the storm sewer system.

In addition to the databases outlined above the following entries from the EcoLog ERIS report were reviewed and summarized below:

- The borehole database identified grey limestone bedrock in the vicinity of the Phase One property.
- There were records for four domestic water wells and one set of monitoring wells listed in the Water Well Information System (WWIS) database for the Phase One study area. It is likely that the record for well ID 1513368 pertains to the water well observed on the Phase One property.

Based on the review of the ERIS report, no potentially contaminating activities (PCA) were identified.

3.8 Physical Setting Sources

3.8.1 Aerial Photographs

Aerial photographs dated 1965, 1976, 1991, 1999, 2005, 2009, 2015 and 2017 were available for review on the City of Ottawa website. 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 E.

Aerial Photograph (year)	Details
1965	The Phase One property is undeveloped. The Phase One property and surrounding properties immediately adjacent to the east are developed as farmland. Immediately adjacent to the north, west and south of the site are undeveloped land, a residential dwelling and Maple Grove Road, respectively. Further to the south, beyond Maple Grove Road, is undeveloped land. Further to the east and west are residential dwellings and farmland, respectively. Johnwoods Street is also visible.
1976	A house is present on the Phase One property. A driveway is present west of the house and runs from Maple Grove Road, past the house, to a smaller building at the back of the property. The smaller building appears to be a garage or shed. Surrounding properties appear to have similar configurations as they did in the 1965 aerial photograph, although the farmland that had been present on the property to the east is now covered in trees.
1991	The configuration of the Phase One property appears to be the same as they were in the 1976 aerial photograph, although the trees are larger. The residential property, located immediately adjacent to the west of the site, has been expanded with a pool, a garage, and an artificial waterbody that is likely used to provide water for livestock. The trees are also larger on the property to the east. Further to the south of the Phase One property and beyond Maple Grove Road, a residential subdivision is being constructed.
1999	The Phase One property appears unchanged from 1991, except that the trees are even larger. The residential neighborhood located to the south of the Phase One property and beyond Maple Grove Road has been fully developed. In addition to Maple Grove Road and Johnwoods Street, Alon Street, Mika Street and Candow Crescent

Aerial Photograph (year)	Details
	have been constructed. All streets appear to be paved. No other significant changes to the Phase One study area were apparent from observations made in 1991.
2005	The Phase One property appears unchanged from 1999. There is a residential dwelling constructed immediately adjacent to the east of the Phase One property. No other significant changes to the Phase One study area were apparent from observations made in 1999.
2009	The Phase One property appears unchanged from 2005. There is significant construction taking place approximately 200 m to the northeast and southeast of the Phase One property. No other significant changes to the Phase One study area were apparent from observations made in 2005.
2015	The Phase One property appears to have a pool. The significant construction that was observed in 2009 to the northeast and southeast of the Phase One property has resulted in creation of several residential neighborhoods. In these neighborhoods Denali Way, Bensinger Way, Mykonos Crescent and Maestro Avenue have been constructed. Development of several residential neighborhoods is taking place approximately 200 meters to the southeast of the Phase One property. No other significant changes to the Phase One study area were apparent from observations made in 2009.
2017	The Phase One property appears unchanged from 2015. Residential neighborhoods that were observed under construction, approximately 200 m to the southeast of the site, in 2015 have been finalized. The Sweetbay Circle has been constructed. No other significant changes to the Phase One study area were apparent.

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.

3.8.2 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 these applications, bedrock in the general area of the Phase One property consists of limestone, dolostone, shale, arkose and sandstone. Native surficial soils in the area consist of clay and silt tills. Ground surface is approximately 110 metres above sea level (masl) in the Phase One study area. Based on the site visit, the local topography is relatively flat.

A topographical map available from Natural Resources Canada (atlas.gc.ca/toporama/en/) was also reviewed. A branch of the Carp River, which is approximately 500 metres west of the Phase One property, is the closest waterbody to the Phase One property.

The inferred groundwater flow direction is northeasterly towards the Ottawa River which is located approximately 10 km to the northeast of the Phase One property.

The topographical map was used as the base of the Site Location Plan, Figure 1, as shown in Appendix C.

3.8.3 Fill Materials

Fill material is typically brought to a site as a base for buildings and pavement. Other areas where fill is likely present are where underground storage tanks or other infrastructure were previously located. Since no significant changes in grade were observed during the site visit, the presence of fill material is not anticipated on the Phase One property.

3.8.4 Water Bodies and Areas of Natural Significance

The nearest surface water body to the Phase One property is a branch of Carp River, located approximately 500 m to the west.

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).

3.8.5 Well Records

The Ontario well records website (www.ontario.ca/environment-and-energy/map-well-records water wells) was accessed. There were records for four potable water wells and one monitoring well within the Phase One study area. Potable water well with well ID 1513368, constructed in 1973, is likely located on the Phase One property.

According to the well record for the Phase One property, the overburden consists of sandy clay to a depth of 3 metres below ground surface (mgbs) and is underlain by limestone bedrock. Examination of the potable well records and monitoring well records in the Phase One study area generally agree with the records obtained from the Phase One property. These records indicate that the general stratigraphy consists of sandy clay to depths ranging from 1.8 to 4.6 mbgs and is underlain by limestone bedrock to the maximum depth investigated (68 mbgs).

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/).

3.9 Site Operating Records

No site operating records are available for the Phase One property.

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. Mike Cybulski, the current property owner, was interviewed in person during the site visit on October 23, 2020 by EXP personnel. Mr. Cybulski acquired the Phase One property in 2003 and used it as his personal residence. He believes that the property was used for residential purposes from the time It was developed until present and that the existing house is the original one. Mr. Cybulski indicated that prior to the date of construction, the Phase One property was used for agricultural purposes.

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 May 12, 2020, Mr. Oliver Vukov, M.Sc., of EXP conducted the Phase One property visit under the supervision of Ms. Patricia Stelmack, M.Sc., P. Eng., the Qualified Person overseeing this investigation. 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.

The general environmental management and housekeeping practices at the Phase One property 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 EXP's investigation.

Observations of the subject property and surrounding properties were made. The site reconnaissance began at approximately 9:00 a.m. and lasted approximately 1 hour. The weather was approximately 10 °C and overcast. Adjacent properties were observed from within the grounds of the Phase One property, as well as publicly accessible areas. Photographs documenting the site visit are included in Appendix G.

5.2 Specific Observations at the Phase One Property

5.2.1 Buildings and Structures

The Phase One property is comprised of one residential house with two floors, an attic, a garage and a basement. There is also a storage shed and a swimming pool located on the property.

The building has two storeys, a garage, a basement and an attic. The two-storey house is used as the place of residence for Mr. Cybulski. The garage stored a vintage car and had vehicle maintenance equipment. The basement contained a sump pump. Mr. Cybulski indicated that minor flooding had occurred in the basement previously and that the water had leaked through the windows. Mr. Cybulski said that nothing was stored in the attic.

There were two AST identified on the Phase One property; they stored propane and were used for heating. The property had a septic tank.

One water well was identified on the Phase One Property. Mr. Cybulski indicated that he uses the water for cooking and cleaning and that he does not consume the water because of unacceptable levels of bacteria.

Access to the residence is from Maple Grove Road via a gravel driveway.

Several abandoned cars, trucks and a fishing boat were also identified on the Phase One property. Mr. Cybulski indicated that they are in the process of being removed from the Phase One property.

The remainder of the property consists of grassy surfaces with several trees.

No significant staining was observed in the building and surrounding surfaces.

5.2.2 Site Utilities and Services

The Phase One property is supplied by an on-site water well that has a groundwater source. Sewage, wastewater and solid waste for the Phase One property are managed by the septic system. The Phase One property suppliers for electricity, gas, phone and cable are Hydro One Ottawa, W.O. Stinson and Son LTD, and Bell, respectively. Mr. Cybulski indicated that heating and cooling are provided to the Phase One property by the use of a propane heating and forced air cooling system.

The ground cover at the Phase One property consists primarily of landscaped grassy areas surrounding the property building.

5.3 Storage Tanks

5.3.1 Underground Storage Tanks

No UST were observed on the Phase One property and there was no evidence of historical UST. An on-site septic system was observed.

5.3.2 Above Ground Storage Tanks

Two propane tank AST were observed on the Phase One property and were used for heating the property building. The AST appeared to be in good condition. No staining was observed in the vicinity of the AST.

5.4 Chemical Storage Handling and Floor Condition

Chemical use on the Phase One property was predominantly limited to commonly available retail sized containers of cleaners and detergents, as well as common maintenance chemicals such as paint. The chemicals used on the Phase One property were stored in a dedicated area in the car garage. All chemicals observed on the Phase One property were stored in small quantities and in their original retail packaging or approved containers. Flooring in the vicinity of chemical storage areas was observed to be in good condition, free of damage or staining. As such, the potential environmental concern to the subsurface environmental conditions of the Phase One property from the use of chemicals is considered to be low.

5.5 Areas of Stained Soil, Pavement or Stressed Vegetation

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

5.6 Fill and Debris

No areas of significant fill or debris were apparent during the site visit. The grade of the Phase One property is similar to surrounding properties.

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.

During the site visit no emergency powered generators were observed. Therefore, 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.

Surrounding properties within the Phase One study area are used for residential purposes to the east, south and west and undeveloped land to the north of 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 buildings at the Phase One property, ACM may be present, however this would only be an issue if building demolition activities were to occur.

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.

Under the management of a licensed contractor, the subject systems do not represent a significant concern to human health or the environment. However, if present, CFCs will require replacement by 2030.

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.

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/m^3) where radon gas is present and the annual radon concentration exceeds 200 Bq/m^3 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.

Mr. Cybulski reported that flooding had occurred previously through the windows in the basement. During the site visit, evidence of water damage was observed in the vicinity of the basement window. However, mould growth was not observed.

5.11.9 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.

5.11.10 Processing and Manufacturing Operations

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

5.11.11 Hazardous Materials Use and Storage

No hazardous materials are used or stored at the Phase One property aside from small amounts of chemicals stored in the car garage.

5.11.12 Vehicle and Equipment Maintenance Areas

Vehicle and equipment maintenance activities were observed in the car garage. However, no obvious spills or staining from their chemical use was observed in the vicinity.

5.11.13 Oil/Water Separators

No oil-water separators were observed at the Phase One property.

5.11.14 Sewage and Wastewater Disposal

Sewage and wastewater generated at the Phase One property is disposed of via the septic system at regular intervals. The septic tank is located in the grassy area and adjacent to the north of the residence building.

5.11.15 Solid Waste Generation, Storage & Disposal

Solid wastes generated at the Phase One property are collected by the septic system at regular intervals. The septic tank is located in the grassy area and adjacent to the north of the residence building.

5.11.16 Liquid Waste Generation, Storage & Disposal

No grease bin was observed during the site visit.

5.11.17 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.

5.11.18 Hydraulic Lift Equipment

Two hydraulic jacks were observed in the car garage. However, these were not considered a concern to the Phase One property since they appeared to be in new and in good working condition. There were no obvious chemical spills or staining in the vicinity where the hydraulic jacks were stored.

5.11.19 Mechanical Equipment

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

5.11.20 Abandoned and Existing Wells

The Phase One property has a potable water well. Mr. Cybulski indicated that the well water is not used for drinking purposes because of bacterial concerns. He indicated that the water is only used for cooking and cleaning purposes.

5.11.21 Roads, Parking Facilities and Right of Ways

Vehicular access to the Phase One property is provided by a paved entrance way from Maple Grove Road.

5.12 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 B for the adjacent land uses.

The following land uses border the Phase One property:

- North: Undeveloped land;
- West: Residential and beyond undeveloped land;
- East: Residential; and
- South: Community and Residential (Maple Grove Road and past that several residential dwellings).

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 one two-storey building with an attic, basement and a garage. There is a storage shed and associated gravel parking and landscaped areas.

Based on the findings of this investigation, no PCA has been identified on the Phase One property or the Phase One study area.

6.0 Review and Evaluation of Information

6.1 Current and Past Uses

The Phase One property was first developed in 1973 for residential purposes. The Phase One property is currently occupied by a two-storey house. The municipal address of the Phase One property is 1927 Maple Grove Road in Stittsville, ON.

A summary of the historic uses of the Phase One property is provided below:

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
January 17, 1828	Patrick Hartin	Undeveloped	Agriculture or other use	No evidence of development until 1973.
December 10, 1878	John Hartin and James Hartin	Undeveloped	Agriculture or other use	No evidence of development until 1973.
June 28, 1893	Malcolm Hartin	Undeveloped	Agriculture or other use	No evidence of development until 1973.
September 13, 1935	James Alexander	Undeveloped	Agriculture or other use	No evidence of development until 1973.
September 19, 1967	Adeleke Bortolussi, Giuseppe Bortolussi, Luigi Padevese, Renzo Fracasio	Undeveloped	Agriculture or other use	No evidence of development until 1973.
June 12, 1973	Julia Construction Limited	Single Family Residence	Residential	Water well was drilled on property in June 1973.
July 17, 1973	Leo A. Landreville	Single Family Residence	Residential	Water well was drilled on property in June 1973.
September 14, 1973	Donald Gale	Single Family Residence	Residential	Water well was drilled on property in June 1973.
December 31, 1973	William George Maclean Bullen, Rosemarie Bullen	Single Family Residence	Residential	House is on property in 1976 aerial photograph.
March 5, 1987	William George Maclean Bullen, Helen Bullen	Single Family Residence	Residential	House is on property in 1976 aerial photograph.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
April 14, 1999	William George Maclean Bullen, Arlene Bullen	Single Family Residence	Residential	House is on property in 1991 aerial photograph.
February 27, 2003	Michael Christopher Cybulski and Patricia Gail Bokij	Single Family Residence	Residential	House is on property in 1999 aerial photograph and subsequent aerial photographs.

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. There were no PCA identified for the Phase One property and the Phase One study area.

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, there were no APEC identified on the Phase One property.

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 and general site features is shown in Figure 2. No PCA were identified within the Phase One study area. As such, there were no APEC identified on the Phase One property.

6.4.1 Buildings and Structures

The Phase One property was developed for residential purposes in 1973. The original building has remained on the Phase One property until present and has been used for residential purposes. The Phase One property was used for agricultural purposes before being developed for residential purposes, but no buildings were present. The house has two storeys and includes a garage, a basement and an attic. A gravel driveway is also present. Vegetation covers the remainder of the Phase One property. There are a storage shed and a swimming pool on the property.

6.4.2 Water Bodies and Groundwater Flow Direction

The nearest surface water body to the Phase One property is a branch of Carp River, located approximately 500 m to the west. The inferred groundwater flow direction is northeasterly towards the Ottawa River, which is located approximately 10 km to the northeast of the Phase One property.

6.4.3 Areas of Natural Significance

There are no ANSI within the Phase One study area.

6.4.4 Water Wells

There was one potable water well identified on the Phase One property. Additionally, several potable water wells were identified within the Phase One study area.

6.4.5 Potentially Contaminating Activity

No on-site or off-site PCA were identified on the Phase One property or the Phase One study area.

6.4.6 Areas of Potential Environmental Concern

The were no APEC identified on the Phase One property.

6.4.7 Underground Utilities

The Phase One Property is serviced by a domestic water well and septic system. Heating is provided by propane, which is stored in two tanks adjacent to the house. Hydro and telecommunication wires are overhead.

6.4.8 Subsurface Stratigraphy

Bedrock in the general area of the Phase One property consists of limestone, dolostone, shale, arkose and sandstone. Native surficial soils in the area consist of clay and silt tills. Ground surface is approximately 110 metres above sea level (masl) in the Phase One study area. The local topography is relatively flat.

6.4.9 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

The Qualified Person who oversaw this work, Patricia Stelmack, M.Sc., P.Eng., does not recommend that a Phase Two Environmental Site Assessment be undertaken at the Phase One property because there were no PCA identified within the Phase One study area and therefore, there were no APEC on the Phase One property.

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.

8.0 References

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- Natural Resources Canada, The Atlas of Canada – Toporama website (atlas.gc.ca/toporama/en/)
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- 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 Latitude Homes Inc. ("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.

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, Patricia Stelmack, M.Sc., P.Eng., recommends that no additional ESA work be conducted since no PCA have been identified that could adversely affected the APEC on the Phase One property.

Oliver Vukov, M.Sc.
Environmental Scientist
Earth and Environment

Patricia Stelmack, M.Sc., P.Eng.
Team Lead/Senior Project Manager
Earth and Environment

Appendix A: Qualifications of Assessors

Qualifications of Assessors

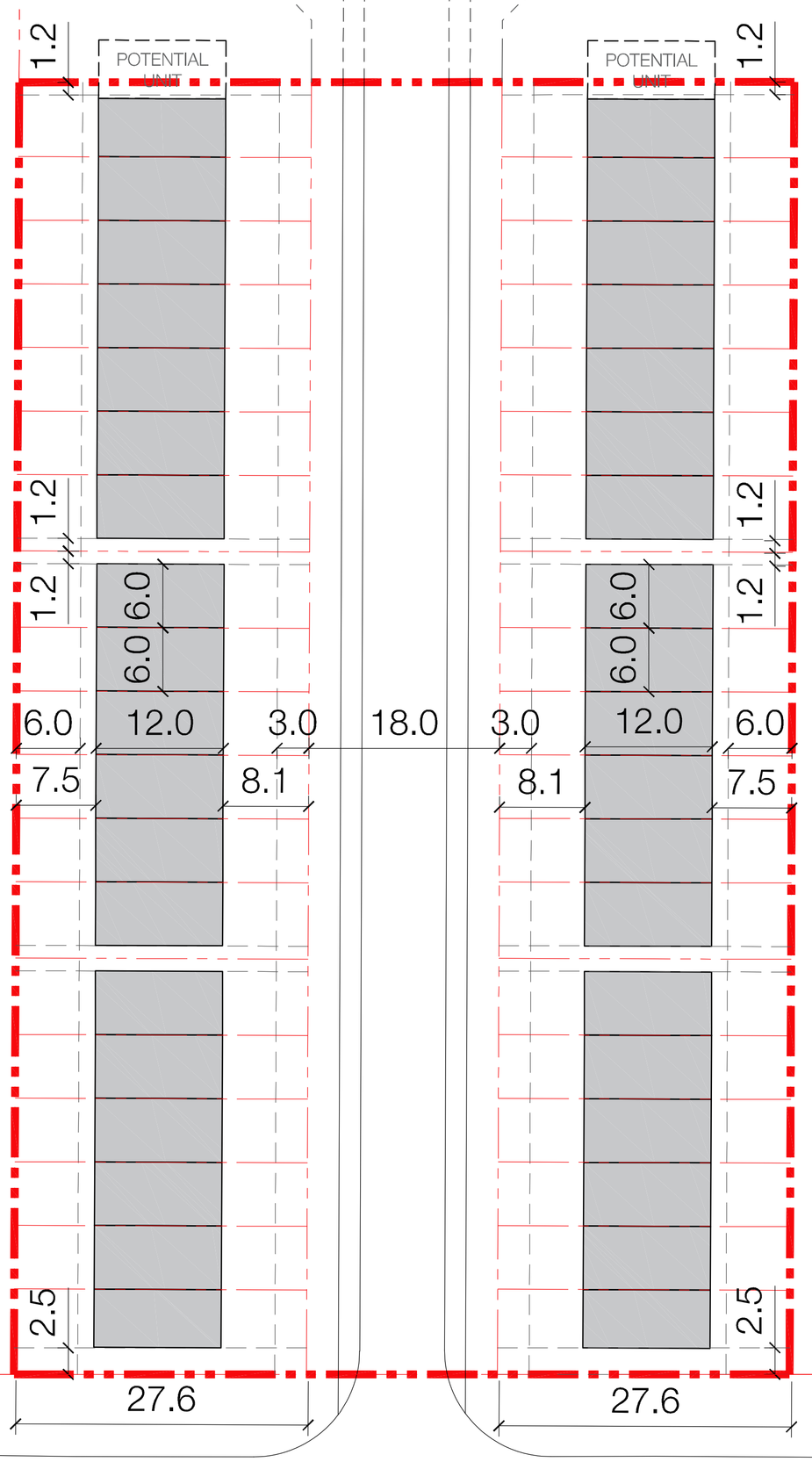
EXP provides a full range of environmental services through a full-time Environmental Services Group. EXP's Earth and Environment Group has developed a strong working relationship with clients in both the private and public sectors and has developed a positive relationship with Ontario Ministry of the 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.

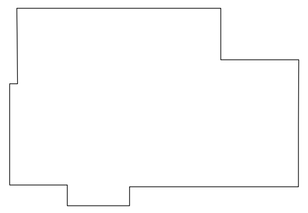
Patricia Stelmack, M.Sc., P.Eng., is a Senior Chemical Engineer/Senior Project Manager who has been working in the environmental field as a consultant and in industry since 1997. Since joining EXP (formerly Barenco Inc.) in 2000, Ms. Stelmack has conducted and managed over 1,000 environmental assessment and remediation projects. Ms. Stelmack earned her B.Sc. in biochemistry and B.A.Sc. in chemical engineering at the University of Ottawa and earned her M.Sc. in chemical and materials engineering at the University of Alberta. She is licensed as a professional engineer in Ontario, Manitoba, and Saskatchewan and is a Qualified Person, as defined in Ontario Regulation 153/04.

Oliver Vukov, M.Sc., is an Environmental Scientist/Risk Assessor who has been working in the environmental consulting field since 2017. Mr. Vukov has been with EXP since 2019 and his project experience includes completion of Human Health and Ecological Risk Assessment reports following Ontario Regulation 153/04 (O. Reg. 153/04) as amended. Oliver has completed Pre-Submission Forms (PSFs), Modified Generic Risk Assessment (MGRA) reports, Due Diligence Risk Assessment (DDRA) reports and Tier 3 Risk Assessment reports for sites across Ontario and for contaminants of concern (COCs) in soil, groundwater and sediment. Mr. Vukov has earned his Honours Bachelor of Science (B.Sc.) in biology and Master of Science (M.Sc.) specializing in aquatic toxicology from Wilfrid Laurier University.

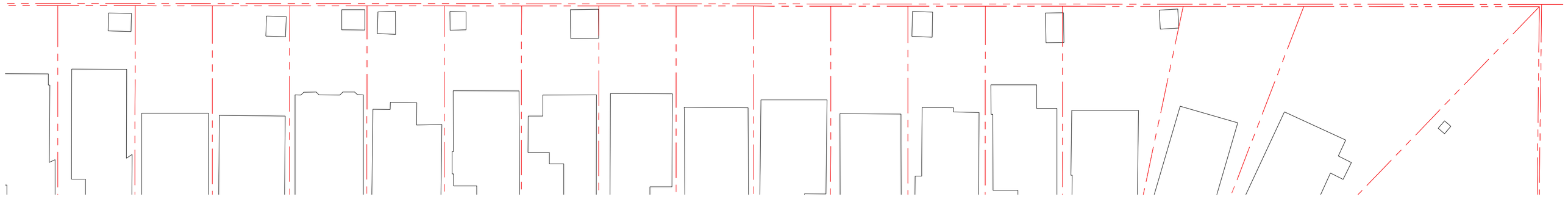
Appendix B: Survey Plan

PROPOSED STREET TO BE DEVELOPED BY ADJOINING DEVELOPER





MAPLE GROVE ROAD



SITE INFORMATION

ZONING	R3YY
SITE AREA	
Total Site Area:	8,916m^2
HEIGHT	
Residential:	4 Storeys (12m)

PARKING RATES	REQUIRED
Residential:	1.0 p/unit

SETBACKS	F.Y.	S.Y.	I.S.Y.	R.Y.
	3m	2.5m	1.2m	6m

DEVELOPMENT STATISTICS

RESIDENTIAL UNITS
Townhouses: 38

PARKING	Required	Provided
Residential:	38	38

NOTES

1. Assumes typical Residential floor height of 3m.

2. The base plan (lot lines, existing roads and surrounding areas) is based on the City's Open Data and aerial images. The site area is approximate and all dimensions need to be confirmed by a proper survey.

1927 MAPLE GROVE ROAD

CONCEPT PLAN 2

LEGEND

- PROPOSED BUILDING
- PROPERTY BOUNDARY
- SETBACKS

0 5m 10m 15m 30m

No.	REVISION	DATE	BY
1	DRAFT	2020.03.05	CB

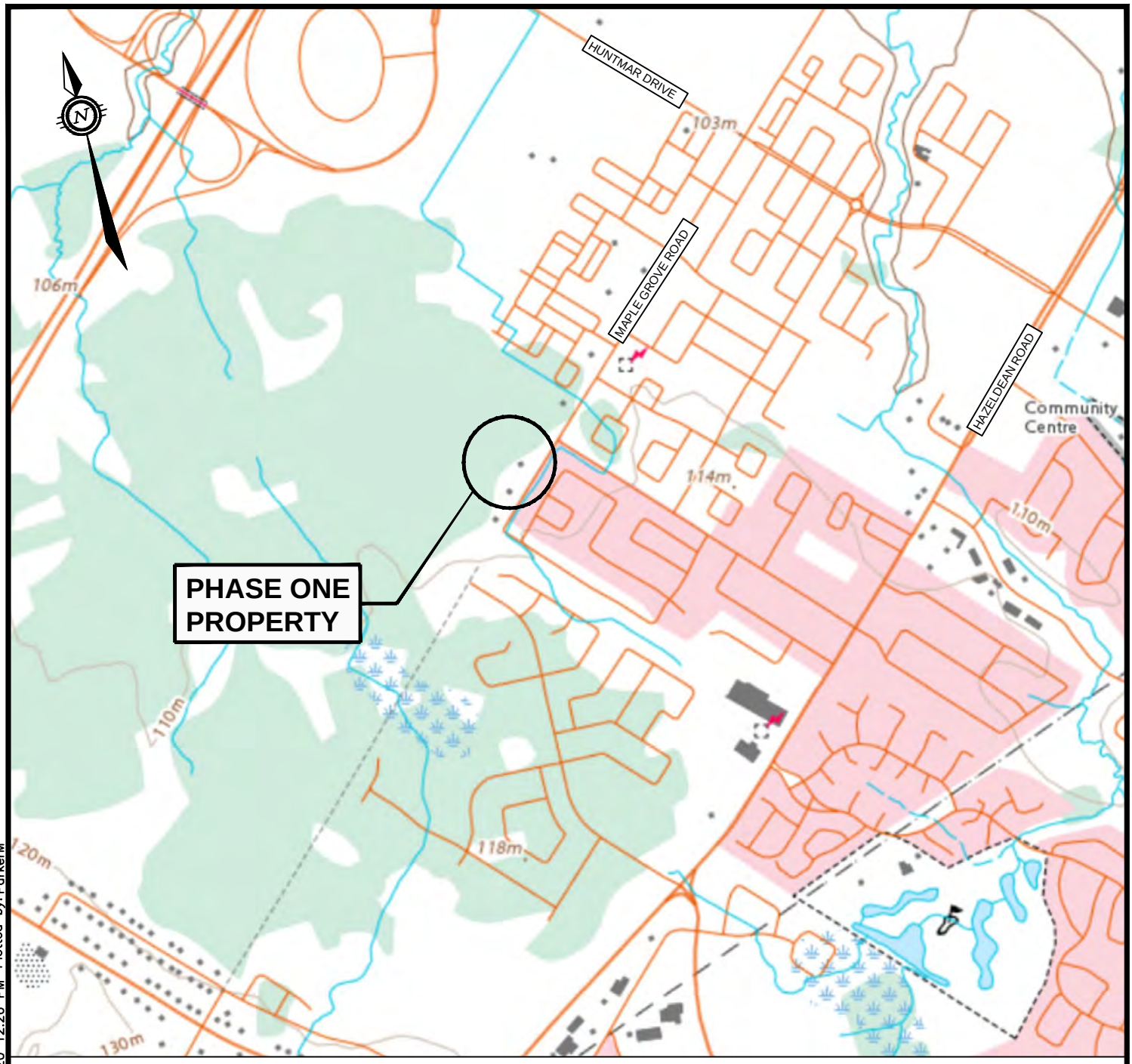
CLIENT
ZAYOUN GROUP INC

FOTENN
Planning + Design
396 Cooper Street, Suite 300, Ottawa ON K2P 2H7
613.730.5709 www.fotenn.com

DESIGNED	RP
REVIEWED	RP
DATE	2020.03.05

P2

Appendix C: Figures



0 150m 300m 600m

HORIZONTAL 1:15,000

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: OCT 2020	CLIENT: LATITUDE HOMES INC.	project no. OTT-00262363-A0
DESIGN: O.V. / CHECKED: P.S.		scale: 1:15,000
DRAWN BY: M.P.	TITLE: SITE LOCATION PLAN 1927 MAPLE GROVE ROAD, STITTSVILLE, ON	FIG 1

Filename: E:\OTT\OTT-00262363-A0\60 Execution\65 Drawings\1927 Maple Grove Road - Fig 1-3.dwg
Last Saved: Nov 2, 2020 12:46 PM Last Plotted: Nov 4, 2020 12:26 PM Plotted by: ParkerM

LEGEND

PHASE ONE PROPERTY BOUNDARY

INFERRED GROUNDWATER FLOW DIRECTION

0 15m 30m 60m

HORIZONTAL 1:1500

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: OCT 2020	CLIENT: LATITUDE HOMES INC.	project no.: OTT-00262363-A0
DESIGN: O.V. / CHECKED: P.S.		scale: 1:1,500
DRAWN BY: M.P.	TITLE: CONCEPTUAL SITE MODEL - PHASE ONE PROPERTY 1927 MAPLE GROVE ROAD, STITTSVILLE, ON	FIG 2

Filename: E:\OTT\OTT-00262363-A0\60 Execution\65 Drawings\1927 Maple Grove Road – Fig 1-3.dwg
Last Saved: Oct 30, 2020 5:32 PM Last Plotted: Oct 30, 2020 5:38 PM Plotted by: ParkerM

LEGEND

PHASE ONE PROPERTY BOUNDARY

PHASE ONE STUDY AREA (250m)

INFERRED GROUNDWATER FLOW DIRECTION

0 50m 100m 200m

HORIZONTAL 1:5,000

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: OCT 2020	CLIENT: LATITUDE HOMES INC.	project no.: OTT-00262363-A0
DESIGN: O.V. / CHECKED: P.S.		scale: 1:5,000
DRAWN BY: M.P.	TITLE: CONCEPTUAL SITE MODEL - PHASE ONE STUDY AREA 1927 MAPLE GROVE ROAD, STITTSVILLE, ON	FIG 3

Filename: E:\OTT\OTT-00262363-A0\60 Execution\65 Drawings\1927 Maple Grove Road – Fig 1–3.dwg
Last Saved: Nov 2, 2020 12:39 PM Last Plotted: Nov 2, 2020 12:43 PM Plotted by: ParkerM

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

October 22, 2020

Via email:
hlui@ottawa.ca

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

Re: OTT-00262363-A0 **Municipal Information Search Request**
1927 Maple Grove Road, Stittsville (Ottawa), Ontario

To whom it may concern,

Our firm has been retained to conduct a Phase I Environmental Site Assessment for 1927 Maple Grove Road, Stittsville (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,

EXP Services Inc.
Kathy Radisch
Administrative Assistant
Earth & Environment

Attachments: Disclaimer
RFI Form
Consent from Owner

File Number: D06-03-20-0179

November 24, 2020

Kathy Radisch
EXP Services Inc.
100 – 2650 Queensview Drive
Ottawa, ON K2B 8H6

Sent via email [kathy.radisch@exp.com]

Dear Ms. Radisch,

Re: Information Request
1927 Maple Grove Road, Ottawa, Ontario ("Subject Property")

Internal Department Circulation

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Property:

- No information was returned on the Subject Property from Departmental circulation.

Search of Historical Land Use Inventory

This acknowledges receipt of the signed Disclaimer regarding your request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the Subject Property.

A search of the HLUI database revealed the following information:

- There are no activities associated with the Subject Property.

The HLUI database was also searched for activity associated with properties located within 250m of the Subject Property. The search revealed the following:

- There are two (2) activities associated with two (2) properties located within 250m of the Subject Property.

Please note that certain activities have been identified to have a PIN Certainty of "2". This identifier acknowledges that there is some uncertainty about the exact location of the land

City of Ottawa
Planning, Infrastructure and Economic Development Department

110 Laurier Avenue West, 4th Floor
Ottawa, ON K1P 1J1
Tel: (613) 580-2424 ext. 21690
Fax: (613) 560-6006
www.ottawa.ca

Ville d'Ottawa
Services de la planification, de l'infrastructure et du développement économique

110, avenue Laurier Ouest, 4e étage
Ottawa (Ontario) K1P 1J1
Tél.: (613) 580-2424 ext. 21690
Téléc: (613) 560-6006
www.ottawa.ca

use activity and that the activity may or may not have been located on the property. All database entries with a PIN Certainty of “2” require independent verification as to their precise location.

A **site map** and **table** have been included to show the location of the Subject Property as well as the location of all the activities noted above, including the HLUI database’s location of the Activity Numbers with a PIN Certainty of “2”.

Additional information may be obtained by contacting:

Ontario’s Environmental Registry

The Environmental Registry found at http://www.ebr.gov.on.ca/ERS-WEB-External/ contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using keys words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an “as is” basis with no representation or warranty by the City with respect to the information’s accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any

purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact Colette Gorni at 613-580-2424 ext. 21239 or HLUI@ottawa.ca

Sincerely,

Colette Gorni

Per:

Michael Boughton, MCIP, RPP
Senior Planner
Development Review East
Planning Services
Planning, Infrastructure and Economic Development Department

MB / CG

Enclosures.

cc: File no. D06-03-20-0179

Address: 1927 Maple Grove Road
Ottawa, ON

File No.: D06-03-20-0179

Prepared By: Colette Gorni

Legend:
- 00 — Area Number
- Subject Site
- 250 m Buffer

Scale: 1 : N/A

Area	Associated HLUI Activities	Associated HLUI Activities with a PIN Certainty of “2” *
Subject Property		
1	14503	
2	9338	

*This identifier acknowledges that there is some uncertainty about the exact location of the land use activity and that the activity may or may not have been located on the property. All database entries with a PIN Certainty of “2” require independent verification as to their precise location.

Historical Land Use Inventory

Activity Numbers –

Adjacent Properties

Historical Land Use Inventory

Area #1 Activity Numbers

CITY OF OTTAWA

HLUI ID: __670IWJ

AREA (Square Metres): 472782.211

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	044870381	Y	N

Activity ID: 14503

Multiple PINS: N

PIN Certainty: 1

Previous Activity ID(s) : 5934, 5782, 5803, 5817, 5826, 5835, 5865, 5919, 5940, 5979, 5991, 6085, 6089, 6100, 6120, 6321, 6338, 6340, 6403, 6429, 6437

Related PINS: 045360337

Name: UNNAMED QUARRY

Address: , WEST CARLETON

Facility Type: Stone Quarries

Comments 1: UTM = 424125E, 5012550N (1985). Area is 450m x 500m

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: 1922-DMD-TM-Ottawa Sheet #14; 1948-DND-ASE-NTS-31G/5; 1967-EMR-SMB-NTS-31/5-7th ed.; 1985-EMR-SMB-NTS-31/5-11th ed.; M.1955, M.1963; FIP1901,vol2; FIP1912,vol2; FIP1922,vol2; FIP1948-267-Proposed; FIP1956-267-26700,vol2

HL References 2: 1951-DND-ASE-NTS-31F/8E-3rd ed., 1964-EMR-SMB-NTS-31F/8-5th ed., 1976-EMR-SMB-NTS-31F/8-7th ed., 1989-EMR-CCM-NTS-31F/8-8th ed.

HL References 3: 1949-51-DND-ASE-NTS-31G/6W-2nd ed., 1965-EMR-SMB-NTS-31G/6W-3rd ed., 1975-EMR-SMB-NTS-31G/6-5th ed., 1983-EMR-SMB-NTS-31G/6-6th ed., Rideau Township Archivist

NAICS	SIC
212317	81
212314	81
212315	81
212316	81
212323	82

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	044870381	Y	N

Company Name	Year of Operation
Unnamed Quarry	c. 1989
Unnamed Quarry	c. 1985
Unnamed Quarry	c. 1948
Unnamed Quarry	c. 1975
Unamed Quarry	c. 1951
Unnamed Quarry	c. 1930
Unamed Quarry	c. 1979
Unnamed Quarry	c. 1948-1967
Unnamed Quarry	c. 1975-1983
Unnamed Plant	c. 1985
Unnamed Quarry	c. 1967
Unnamed Quarry	c. 1967-1985
Unnamed Quarry	c. 1979
Unnamed Quarry	c. 1922-1985
Unnamed Sand/Gravel Pit	c. 1964

Historical Land Use Inventory

Area #2 Activity Numbers

CITY OF OTTAWA

HLUI ID: __679B8S

AREA (Square Metres): 344.030

Report: RPTC_OT_DEV0122

Run On: 09 Nov 2020 at: 10:12:12

Study Year	PIN	Multi-NAIC	Multiple Activities
2005	044870039	N	N

Activity ID: 9338 **Multiple PINS:** Y

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 044870039

Name: NORTHERN EXPOSURE LOG HOME RESTORATION

Address: 65 ALON STREET,

Facility Type: Sash, Door and Other Millwork Industries

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2005 Select Phone

NAICS	SIC
236110	0
321992	0

Company Name	Year of Operation
NORTHERN EXPOSURE LOG HOME RESTORATION	c. 2005
NORTHERN EXPOSURE LOG HOME RESTORATION	c. 2001

October 20, 2020

VIA FACSIMILE:
416-314-4285

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-00262363-A0 **File Review Request**
1927 Maple Grove Road, Stittsville (Ottawa), Ontario

Dear Sir or Madam:

I am sending a Freedom of Information Request to you for 1927 Maple Grove Road, Stittsville (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.

Kathy Radisch
Administrative Assistant
Earth & Environment

Enclosures: FOI Form
Credit Card Payment Form

100 - 2650 Queensview Drive, Ottawa, Ontario K2B 8H6
T: +1.613.688.1899 • F: +1.613.225.7337 • www.exp.com

Ontario

Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement climatique

ENVIRONMENTAL COMPLIANCE APPROVAL
NUMBER 3430-AXNLMK
Issue Date: April 13, 2018

Mattamy (Fairwinds West) Limited
50 Hines Road, Suite 100
Ottawa, Ontario
K2K 2M5

Site Location: 53 Mika Street
City of Ottawa, Ontario

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

sanitary sewers to be constructed in the City of Ottawa, on Johnwoods Street (from Station 0+010.00 to Station 0+075.58 and from Station 0+010.00 to Station 0+059.26) discharging to the existing sanitary sewers located on Maple Grove Road;

including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned Works;

all in accordance with the submitted application and supporting documents listed in Schedule "A" forming part of this Approval.

For the purpose of this environmental compliance approval, the following definitions apply:

1. "*Approval*" means this entire document and any schedules attached to it, and the application;
2. "*Director*" means a person appointed by the Minister pursuant to section 5 of the *EPA* for the purposes of Part II.1 of the *EPA*;
3. "*District Manager*" means the District Manager of the appropriate local District Office of the *Ministry*, where the *Works* are geographically located;
4. "*EPA*" means the *Environmental Protection Act,* R.S.O. 1990, c.E.19, as amended;

5. "*Ministry*" means the ministry of the government of Ontario responsible for the *EPA* and *OWRA* and includes all officials, employees or other persons acting on its behalf;
6. "*Owner*" means Mattamy (Fairwinds West) Limited, and includes its successors and assignees;
7. "*OWRA*" means the *Ontario Water Resources Act, R.S.O. 1990, c. O.40*, as amended;
8. *"Water Supervisor"* means the Water Supervisor of the appropriate local office of the Safe Drinking Water Branch of the Ministry, where the Works are geographically located;
9. "*Works*" means the sewage works described in the *Owner*'s application, and this *Approval*.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. **GENERAL CONDITIONS**
    1. The *Owner* shall ensure that any person authorized to carry out work on or operate any aspect of the *Works* is notified of this *Approval* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
    2. Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Approval*, and the application for approval of the *Works*.
    3. Where there is a conflict between a provision of any document in the schedule referred to in this *Approval* and the conditions of this *Approval*, the conditions in this *Approval* shall take precedence, and where there is a conflict between the documents in the schedule, the document bearing the most recent date shall prevail.
    4. Where there is a conflict between the documents listed in Schedule "A" and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
    5. The conditions of this *Approval* are severable. If any condition of this *Approval*, or the application of any requirement of this *Approval* to any

circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this *Approval* shall not be affected thereby.

2. **EXPIRY OF APPROVAL**
    1. This *Approval* will cease to apply to those parts of the Work which have not been constructed within five (5) years of the date of this *Approval*.
    2. In the event that completion and commissioning of any portion of the *Works* is anticipated to be delayed beyond the specified expiry period, the *Owner* shall submit an application of extension to the expiry period, at least twelve (12) months prior to the end of the period. The application for extension shall include the reason(s) for the delay, whether there is any design change(s) and a review of whether the standards applicable at the time of Approval of the *Works* are still applicable at the time of request for extension, to ensure the ongoing protection of the environment.

3. **CHANGE OF OWNER**
    1. The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within thirty (30) days of the change occurring:
        a. change of Owner;
        b. change of address of the *Owner*;
        c. change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act*, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager*; or
        d. change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the *Corporations Information Act*, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager*.
    2. In the event of any change in ownership of the *Works*, other than a change to a successor municipality, the *Owner* shall notify in writing the succeeding owner of the existence of this *Approval*, and a copy of such notice shall be forwarded to the *District Manager* and the *Director*.
    3. The *Owner* shall ensure that all communications made pursuant to this condition refer to the number at the top of this *Approval*.
    4. Notwithstanding any other requirements in this *Approval*, upon transfer of the ownership or assumption of the *Works* to a municipality if applicable, any reference to the *District Manager* shall be replaced with the *Water Supervisor* .

SCHEDULE "A"

1. Application for Environmental Compliance Approval for Municipal and Private Sewage Works, dated February 14, 2018, and received on March 26, 2018, submitted by Mattamy (Fairwinds West) Limited.
2. Transfer of Review Letter of Recommendation, dated March 22, 2018, and signed by Charles Warnock, P. Eng., Senior Engineer - Infrastructure Applications, City of Ottawa.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are constructed and operated in the manner in which they were described and upon which approval was granted. This condition is also included to emphasize the precedence of conditions in the *Approval* and the practice that the *Approval* is based on the most current document, if several conflicting documents are submitted for review.
2. Condition 2 is included to ensure that, when the *Works* are constructed, the *Works* will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the *Ministry* records are kept accurate and current with respect to approved Works and to ensure that subsequent owners of the *Works* are made aware of the *Approval* and continue to operate the *Works* in compliance with it.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;

5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of the Environmental Protection Act
Ministry of the Environment and Climate Change
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or** www.ert.gov.on.ca

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 13th day of April, 2018

Christina Labarge, P.Eng.
Director
appointed for the purposes of Part II.1 of the *Environmental Protection Act*

NW/
c: District Manager, MOECC Ottawa
Jennifer Ailey, P. Eng., David Schaeffer Engineering Ltd.
Charles Warnock, P. Eng., Senior Engineer - Infrastructure Applications, City of Ottawa (File No. D07-16-07-0021)
City Clerk, City of Ottawa

Instrument Decision Notice:

Proponent: Tartan Land Consultants Inc.
237 Somerset Street West
Ottawa Ontario
Canada K2S 0J3
Instrument Type: Permit for activities with conditions to achieve overall benefit to the species - ESA s.17(2) (c)

EBR Registry Number: 011-5086
Ministry Reference Number:
MNR INST 66/11
Ministry:
Ministry of Natural Resources
Date Proposal loaded to the Registry:
December 21, 2011
Date Decision loaded to the Registry:
October 09, 2013

Some web links in this notice have been updated due to a web migration project. If you cannot access information that was previously available, you can request assistance from the contact listed in this notice. The remainder of the notice has not been altered.

This decision notice was originally published May 30, 2012. The decision notice was republished on October 9, 2013 to give notice of an amendment to the permit.

October 09, 2013

Keyword(s): Compliance | Land use planning | Forests | Conservation

Decision on Instrument:

On May 9, 2012 the Minister of Natural Resources issued an overall benefit permit to Tartan Land Consultants Inc. under clause 17(2)(c) of the Endangered Species Act, 2007 (ESA) with respect to Butternut in order to construct a residential subdivision located in the Stittsville portion of Ottawa on Lots 26 & 27, Concession 12 in the Geographic Township of Goulbourn.

Reasonable alternatives to the proposal were considered, including alternatives that would not adversely affect the species. Alternatives considered included leaving trees in their current location and transplanting trees. There were no feasible alternatives that would allow for the retention of all the Butternut trees given the intended urban density and infrastructure, and grading required for the residential development. Mature Butternuts are too large to be transplanted successfully. The seedling trees were also considered for potential transplanting, however, the site has shallow soils, and given the long roots of Butternut trees it was not a feasible option at this site. The best alternative was selected that would benefit Butternut and allow for the development plans to proceed. The best alternative, which was adopted, consists of:
• Developing the project site on 25.06 hectares (ha) of land, using the current site location and layout to minimize effects on protected species and habitat.
• Compensating for the removal and harming of Butternut trees on the site by implementing an overall benefit plan.
• Tending and monitoring the planted Butternut seedlings for five years following their planting.

The permit requires Tartan Land Consultants Inc. to undertake a number of measures to minimize adverse effects on individual members of Butternut, including:
• Successfully avoiding 134 of the 567 retainable Butternut trees by working around the trees.
• Emulating natural Butternut habitat conditions and avoiding a monoculture of disease-prone trees by planting the Butternut in an area that includes 1210 seedlings of other native deciduous and coniferous tree species native to the area.

The permit requires Tartan Land Consultants Inc. to undertake a number of actions to achieve an overall benefit to Butternut, within a reasonable time, including:
• Compensate for the removal of 379 retainable Butternut trees by planting 648 seedlings and tending a total of 848 Butternut seedlings.
• Planting of 585 and tending of 1210 native deciduous and coniferous species to accompany the Butternut seedlings.
• Collect 3000 seeds which will become part of the Rideau Valley Conservation Authority Butternut recovery program (a partner with the Forest Gene Conservation Authority).
• Collect an additional 294 Butternut seeds from retainable Butternut in an appropriate seed zone to provide an overall benefit to 54 retainable Butternut trees proposed to be harmed under the permit. If fewer than 54 trees are harmed, fewer Butternut seeds may be collected in accordance with ratios established by the MNR.
• Collect fifty scions each (cuttings) from two Butternut on site that have to date demonstrated resilience to Butternut canker disease (for a total minimum of 100). A minimum of 60 scions will be grafted and archived while the balance would be donated to the Ontario Forest Research Institute.
• These newly planted Butternut trees would receive protection under the ESA and would result in increased diversity in the local gene pool and an increased reproductive potential for the species.

Individuals who wish to view additional information on this overall benefit permit may visit the MNR Species at Risk website, where information about this permit will be updated periodically:
http://www.ontario.ca/speciesatrisk

On September 20, 2013, MNR issued an amendment to the permit. The amendment increased the total number of Butternut harmed from 54 to 95 (an increase in 41 Butternuts) and the total number of Butternut removed from 379 to 387 (an increase in 8 Butternuts). In addition to the overall benefit required in the original permit, Tartan Land Consultants Inc. shall collect 832 seeds from retainable Butternut located in the Ministry of Natural Resources' Tree Seed Zones 35 or 36 and donate those seeds to

Contact:

Paula Norlock
PERMITS AND AGREEMENTS SPECIALIST
Ministry of Natural Resources
Policy Division
Species at Risk Branch
300 Water Street
Floor 2
Robinson Place South Tower
Peterborough Ontario
K9J 8M5
Phone: (705) 755-1788
Fax: (705) 755-5483

Location(s) Related to this Instrument:

Lot 26 and 27, Concession 12, Goulbourn Township, Stittsville

CITY OF OTTAWA
GOULBOURN

the Rideau Valley Conservation Authority. This will bring the total number of Butternut seeds collected under the original permit conditions and the permit amendment conditions to 4126 seeds. The additional seed collection will not change the deadline for seed collection of September 30, 2014 on the current permit.

Comment(s) Received on the Proposal: 0

Public Consultation on the proposal for this decision was provided for 37 Days, from November 21, 2011 to December 28, 2011.

As a result of public consultation on the proposal, the Ministry received a total of 0 comments.

Effect(s) of Consultation on this Decision:

No comments were received in response to this Environmental Registry notice.

Leave to Appeal Provisions:

No Appeal exists on the ministry's decision pertaining to this instrument.

View Proposal

Add Notice into My Watch List

Instrument Decision Notice:

Proponent: Mattamy Homes Limited
50 Hines Road
Suite 100
Ottawa Ontario
Canada K2K 2M5
Instrument Type: Permit for activities with conditions to achieve overall benefit to the species - ESA s.17(2) (c)

EBR Registry Number: 011-9579
Ministry Reference Number:
MNR INST 44/13
Ministry:
Ministry of Natural Resources and Forestry
Date Proposal loaded to the Registry:
July 10, 2013
Date Decision loaded to the Registry:
February 04, 2016

Some web links in this notice have been updated due to a web migration project. If you cannot access information that was previously available, you can request assistance from the contact listed in this notice. The remainder of the notice has not been altered.

During a file review, staff of the Ministry of Natural Resources and Forestry discovered that there were a large number of proposal notices on the Environmental Registry without decision notices. This decision notice has been posted to advise the public of the decision that was made on this proposal.

Keyword(s): Land use planning

Decision on Instrument:

Approval granted September 25, 2013.

Comment(s) Received on the Proposal: 0

Public Consultation on the proposal for this decision was provided for 30 Days, from July 10, 2013 to August 09, 2013.

As a result of public consultation on the proposal, the Ministry received a total of 0 comments.

Effect(s) of Consultation on this Decision:

No comments were received in response to the Environmental Registry notice. A decision was made to proceed with the approval of this proposal.

Leave to Appeal Provisions:

No Appeal exists on the ministry's decision pertaining to this instrument.

Contact:

Erin Seabert
Fish and Wildlife Technical Specialist
Ministry of Natural Resources and Forestry
Regional Operations Division
Southern Region
Kemptville District
10 Campus Drive
Postal Bag 2002
Kemptville Ontario
K0G 1J0
Phone: (613) 258-8436
Fax: (613) 258-1430

Location(s) Related to this Instrument:

Maple Grove Road, Part of Lot 26, Concession 12

CITY OF OTTAWA
GOULBOURN

View Proposal
Add Notice into My Watch List

Instrument Decision Notice:

Proponent: Tartan Land Consultants Inc.
237 Somerset Street West
Ottawa Ontario
Canada K2S 0J3
Instrument Type: Permit for activities with conditions to achieve overall benefit to the species - ESA s.17(2) (c)

EBR Registry Number: 012-3895
Ministry Reference Number:
MNRF INST 29/15
Ministry:
Ministry of Natural Resources and Forestry
Date Proposal loaded to the Registry:
April 09, 2015
Date Decision loaded to the Registry:
June 24, 2015

Keyword(s): Land use planning

Decision on Instrument:

On June 17, 2015 the Minister of Natural Resources and Forestry issued an overall benefit permit to Tartan Land Consultants Inc. under clause 17(2)(c) of the Endangered Species Act, 2007 (ESA) with respect to Butternut in order to relocate a sewer outlet for the construction a residential development on Maple Grove Rd. at Lot 26 and 27, Concession 12 in the Geographic Township of Goulbourn, Ottawa, Ontario.

Reasonable alternatives to the proposal were considered, including alternatives that would not adversely affect the species. Alternatives considered included conducting the activity in an alternative location and using alternative methods, equipment, designs, etc., for carrying out the proposed activity. The best alternative, which was adopted, includes planning the sewer outlet location and subdivision layout in order to preserve as many healthy Butternut trees as possible.

The permit requires Tartan Land Consultants Inc. to undertake a number of measures to minimize adverse effects on individual members of Butternut, including:

• Minimizing the number of trees on site that are removed.
• Retaining a qualified professional to carry out conditions of the permit.

The permit requires Tartan Land Consultants Inc. to undertake a number of actions to achieve an overall benefit to Butternut, within a reasonable time, including collecting fifty scions (small pieces of Butternut with buds) from one archivable Butternut tree that demonstrates potential resistance to Butternut canker disease. A minimum of 30 scions will be grafted and archived while the balance would be donated to the Ontario Forest Research Institute.

Individuals who wish to view additional information on this overall benefit permit may visit the MNRF Species at Risk website, where information about this permit may be updated periodically.

http://www.ontario.ca/environment-and-energy/endangered-species-act-permits-and-authorizations-list-and-locations#list

Comment(s) Received on the Proposal: 0

Public Consultation on the proposal for this decision was provided for 32 Days, from April 09, 2015 to May 11, 2015.

As a result of public consultation on the proposal, the Ministry received a total of 0 comments.

Effect(s) of Consultation on this Decision:

No comments were received in response to the Environmental Registry notice.

Leave to Appeal Provisions:

No Appeal exists on the ministry's decision pertaining to this instrument.

Contact:

Kemptville District
Species at Risk Biologist
Ministry of Natural Resources and Forestry
Regional Operations Division
Southern Region
Kemptville District
10 Campus Drive
Postal Bag 2002
Kemptville Ontario
K0G 1J0
Phone: (613) 258-8418
Fax: (613) 258-1430

Location(s) Related to this Instrument:

South side of Maple Grove Rd. and east of Johnwoods St., in Ottawa

Lots 26 & 27, Concession 12, Geographic Township of Goulbourn

CITY OF OTTAWA

View Proposal
Add Notice into My Watch List

Instrument Decision Notice:

Proponent: Maple Grove Co-Tenancy Corp
237 Sumerset Street West
Ottawa Ontario
Canada K2P 0J3
Instrument Type: Permit for activities with conditions to achieve overall benefit to the species - ESA s.17(2) (c)

EBR Registry Number: 013-1073
Ministry Reference Number:
MNRF INST 50/17
Ministry:
Ministry of Natural Resources and Forestry
Date Proposal loaded to the Registry:
July 31, 2017
Date Decision loaded to the Registry:
November 22, 2017

Keyword(s): Land use planning

Decision on Instrument:

On November 20, 2017 the Minister of Natural Resources and Forestry issued an overall benefit permit to the Corporation under clause 17(2)(c) of the Endangered Species Act, 2007 (ESA) in order to: remove one (1) and harm four (4) Category 3 Butternut trees, and damage and destroy up to 0.24 ha of Butternut habitat; as well as kill, harm and harass Blanding's Turtles, and damage and destroy up to 0.26 ha of Blanding's Turtle habitat, in order to construct a residential development in the City of Ottawa.
Reasonable alternatives to the proposal were considered, including alternatives that would not adversely affect the species such as:

• not proceeding with the development project at proposed location;
• altering project design to avoid impacts to all retainable Butternuts and
• altering project design to avoid impacts to Category 2 Blanding's Turtle habitat.

The best alternative, which was proposed, includes proceeding with the project development at the proposed location and altering project design to reduce the number of lots developed in the subdivision to retain four (4) Butternut trees on the site, and reduce the area of Category 2 Blanding's Turtle habitat impacted from 0.04 ha to 0.03 ha.

The permit requires the Corporation to undertake a number of measures to **minimize adverse effects** to Butternut and Blanding's Turtle, including:

• protecting retainable Butternuts on proposed development location by installing protective exclusion fencing to restrict construction activity;
• installing wildlife exclusion fencing along the periphery of the development area;
• relocating wildlife found within the proposed development site after the exclusion fencing has been installed;
• avoiding construction activities that may impact the Blanding's Turtle during sensitive times of year; and
• narrowing project work areas to minimize impacts to Butternuts and Blanding's Turtles; and
• ensuring that a Qualified Professional is on site to implement the conditions of the proposed permit and mitigation measures.

The permit requires the Corporation to undertake a number of actions to achieve **an overall benefit to the species at risk** within a reasonable time, including:

• Archive three (3) Butternut trees by collecting at least 50 Butternut Scions from an archivable Butternut tree, of which at least 30 will be grafted, tended and planted in a protected area; and
• Decrease road mortality and improving adult survivorship for this population by installing 367 meters of exclusion fencing along the Poole Creek corridor.

Comment(s) Received on the Proposal: 0

Public Consultation on the proposal for this decision was provided for 30 Days, from July 31, 2017 to August 30, 2017.

As a result of public consultation on the proposal, the Ministry received a total of 0 comments.

Effect(s) of Consultation on this Decision:

On July 31, 2017 the permit proposal was posted on the Environmental Registry (ER) for 30 days (ER number: 013-1073, MNR450BN-2017-1049) as an Instrument Notice for public review and comment. No comments were received as a result of this posting.

Leave to Appeal Provisions:

No Appeal exists on the ministry's decision pertaining to this instrument.

Contact:

Aaron Foss
Fish and Wildlife Technical Specialist
Ministry of Natural Resources and Forestry
Regional Operations Division
Southern Region
Kemptville District
10 Campus Drive
Postal Bag 2002
Kemptville Ontario
K0G 1J0
Phone: (613) 258-8386
Fax: (613) 258-1430

Location(s) Related to this Instrument:

Site is located between Maple Grove Road and Hazledean Road, Lots 26 and 27, Concession 12

Stitsville area of Ottawa

GOULBOURN

View Proposal

Add Notice into My Watch List

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

Ontario

31 G/52

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

11 | 1513367 | MUNICIP. 15005 | CON. GON | 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Huntley	1	~~001~~ 001

[redacted] chmond, Ontario. | DATE COMPLETED DAY 11 MO. 06 YR. 73

	RC	ELEVATION	RC	BASIN CODE		
4732	4	349	4	26	JAN 12, 1975	44

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Sand Clay			0'	9'
Dark	Limestone			9'	105'
Grey	Limestone			105'	125'
Dark	Limestone			125'	223'

31 | 0009 | 0105 | 1/5 | 0125 | 0223 | 1/5

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0085	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
0220	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE	188	0	0022
~~5 7/8~~	~~4 ☒ OPEN HOLE~~		~~22~~	~~0223~~
06	4 ☒ OPEN HOLE		22	0223

SCREEN

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	0006 GPM	0 HOURS 0 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
030 FEET	090 FEET	1 ☒ PUMPING 2 ☐ RECOVERY	090 FEET	090 FEET	090 FEET	090 FEET

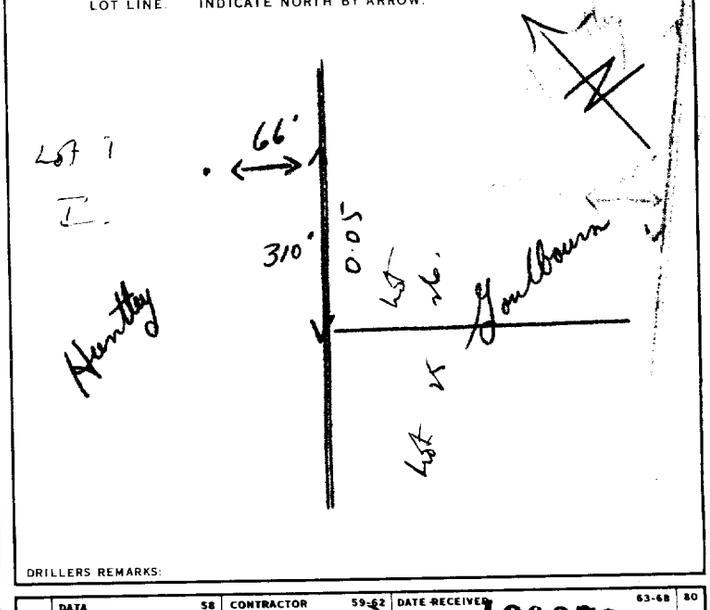
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	~~110~~ FEET	0005 GPM

50-53 0001

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL

54 | 1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE

55-56 | 1 ☒ DOMESTIC 2 ☒ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

01

METHOD OF DRILLING

57 | 1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☒ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. | LICENCE NUMBER: 1558

ADDRESS: Box 490, Stittsville, Ontario.

NAME OF DRILLER OR BORER: Lenny Drynan | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Walter Lawrence | SUBMISSION DATE: DAY ~~13~~ MO. ~~6~~ YR. ~~73~~

OFFICE USE ONLY

DATA SOURCE 58: 1 | CONTRACTOR 59-62: 1558 | DATE RECEIVED 63-68: 130873

DATE OF INSPECTION | INSPECTOR

REMARKS: P-R

CSS.S8

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

31G/5d

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

11 | 1513368 | MUNICIP. 15005 | CON. CON | 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	LOT
Carleton	Huntley	1	~~001~~ 001

OWNER (SURNAME FIRST)	ADDRESS	DATE COMPLETED
Juluia Constr.	Richmond, Ontario.	DAY 11 MO. 06 YR. 73

21		ZONE	EASTING	NORTHING	RC.	ELEVATION	RC.	BASIN CODE		
	1513368	18	426925	5014563	4	355	4	26	JAN 12, 1975	44

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Sandy Clay		Packed	0'	10'
Dark	Limestone		Meduim	10'	48'
Grey	Limestone		Meduim	48'	73'

31 | 0010605 28 | 0048 15 | 0073 215

32

WATER RECORD (41)

WATER FOUND AT - FEET	KIND OF WATER
0035	☒ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
0048	☒ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
0072	☒ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERAL

CASING & OPEN HOLE RECORD (51)

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
~~6¼~~ 06	☒ STEEL ☐ GALVANIZED ☐ CONCRETE	188	0'	0022'
~~5¾~~	☒ OPEN HOLE		~~22'~~	~~73'~~
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE		22	0073
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET

PLUGGING & SEALING RECORD (61)

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

PUMPING TEST (71)

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
☒ PUMP ☐ BAILER	0010 GPM	03 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING ☒ PUMPING ☐ RECOVERY: 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
020 FEET	050 FEET	050 FEET	050 FEET	050 FEET	050 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	☒ CLEAR ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	055 FEET	0005 GPM

50-53: 003.3

FINAL STATUS OF WELL

☒ WATER SUPPLY ☐ OBSERVATION WELL ☐ TEST HOLE ☐ RECHARGE WELL ☐ ABANDONED, INSUFFICIENT SUPPLY ☐ ABANDONED, POOR QUALITY ☐ UNFINISHED

WATER USE 01

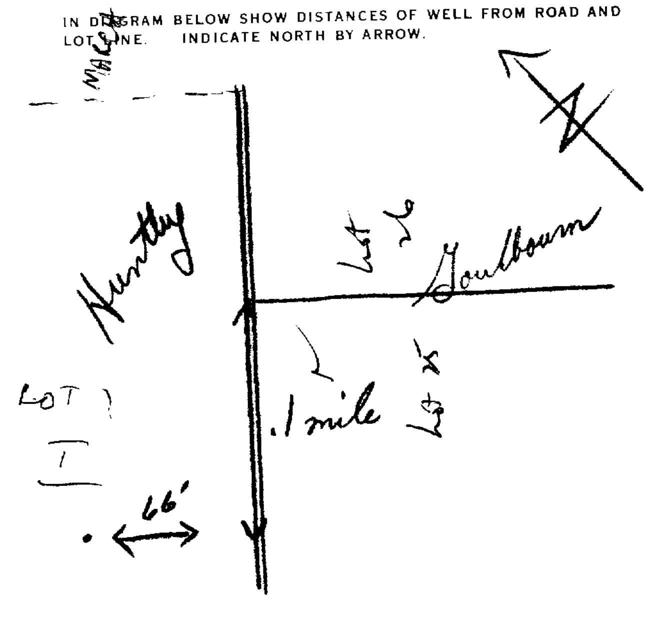
☒ DOMESTIC ☐ STOCK ☐ IRRIGATION ☐ INDUSTRIAL ☐ OTHER ☐ COMMERCIAL ☐ MUNICIPAL ☐ PUBLIC SUPPLY ☐ COOLING OR AIR CONDITIONING ☐ NOT USED

METHOD OF DRILLING

☐ CABLE TOOL ☐ ROTARY (CONVENTIONAL) ☐ ROTARY (REVERSE) ☐ ROTARY (AIR) ☒ AIR PERCUSSION ☐ BORING ☐ DIAMOND ☐ JETTING ☐ DRIVING

LOCATION OF WELL

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



DRILLERS REMARKS:

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
Capital Water Supply Ltd.	1558
ADDRESS: Box 490, Stittsville, Ontario.	
NAME OF DRILLER OR BORER: Lenny Drynan	LICENCE NUMBER
SIGNATURE OF CONTRACTOR: [signature]	SUBMISSION DATE DAY 13 MO. 6 YR. 73

OFFICE USE ONLY

DATA SOURCE	CONTRACTOR	DATE RECEIVED
1	1558	130873
DATE OF INSPECTION	INSPECTOR	
REMARKS: P-R		

CSS.S8

FORM 7 07-091

MINISTRY OF THE ENVIRONMENT COPY

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The Ontario Water Resources Act

WATER WELL RECORD

ONTARIO

31G/5d

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

11 | 1513387 | MUNICIP. 15005 | CON. CON | 01

COUNTY OR DISTRICT: [redacted]

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Huntley

CON., BLOCK, TRACT, SURVEY, ETC.: 1

LOT: Part 001

[redacted] ttsville, Ont. R.R. # 2

DATE COMPLETED: DAY 22 MO. 06 YR. 73

RC. | ELEVATION | BC | BASIN CODE

21 | 1513387 | 18 | 427410 | 5014365 | 4 | 351 | 4 | 26 | JAN 12, 1975 | 44

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	Overburden			0	6
	Limestone			6	125

31 | 0006 | 0125 | 15

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0100	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
~~125~~	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06 ~~05~~	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0020
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
0010	0012	Cement Grout

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	0005 GPM.	01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☒ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
020 FEET	057 FEET	028 FEET	025 FEET	022 FEET	021 FEET

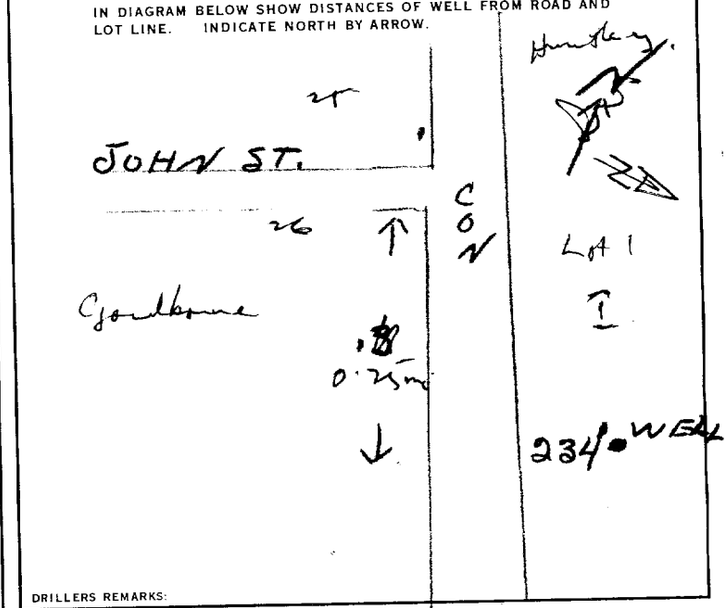
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM.	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	100 FEET	0005 GPM.

50-53: 0001 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL

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

WATER USE 01

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

METHOD OF DRILLING

1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: McLean Water Supply Ltd — LICENCE NUMBER: 3504

ADDRESS: 1532 Raven Ave. Ottawa, Ont.

NAME OF DRILLER OR BORER: K. Scharf — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [signature]

SUBMISSION DATE: DAY 28 MO. 6 YR. 73

OFFICE USE ONLY

DATA SOURCE 58: 1 — CONTRACTOR 59-62: 3504 — DATE RECEIVED 63-68: 130873

DATE OF INSPECTION: — INSPECTOR: K

REMARKS: CSS.38

P R

WI

FORM 7 07-091

MINISTRY OF THE ENVIRONMENT COPY

Ontario Ministry of the Environment

Well Tag Number: A014419 (A014419)

Well Record

Regulation 903 Ontario Water Resources Act

page ___ of ___

Instructions for Completing Form

- For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.
- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

MUN 15025 CON CON LOT 21

Well Owner's Information and Location of Well Information

[redacted]

Ottawa Carleton | West Carleton | 1 | 1

RR#/Street Number/Name: 1919 maple Grove Rd. | City/Town/Village: Stittsville | Site/Compartment/Block/Tract etc.

GPS Reading | NAD: 83 | Zone: 18 | Easting: 426984 | Northing: 5014858 | Unit Make/Model: Magellan | Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
	sand + gravel			0	4.6
grey	limestone			4.6	39.6

Hole Diameter

Depth From (Metres)	Depth To (Metres)	Diameter (Centimetres)
0	39.6	15.23

Water Record

Water found at ___ Metres	Kind of Water
36.9	☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other: Not tested
___ m	☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
___ m	☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

After test of well yield, water was: ☒ Clear and sediment free ☐ Other, specify: Not tested

Chlorinated ☒ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From (Metres)	Depth To (Metres)
Casing				
15.88	☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.48	0	6.7
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
	☒ Open hole		6.1	39.6

Test of Well Yield

Pumping test method: Submersible pump

	Draw Down Time (min)	Draw Down Water Level (Metres)	Recovery Time (min)	Recovery Water Level (Metres)
Pump intake set at - (metres)	Static Level	4.96		12.70
Pumping rate (litres/min): 91	1	7.58	1	8.95
Duration of pumping: 1 hrs + — min	2	8.88	2	7.41
Final water level end of pumping: 12.7 metres	3	9.70	3	7.92
Recommended pump type: ☐ Shallow ☒ Deep	4	10.26	4	6.72
Recommended pump depth: 30.4 metres	5	10.65	5	6.49
Recommended pump rate: 91 (litres/min)	10	11.62	10	6.02
If flowing give rate - (litres/min)	15	11.80	15	5.80
If pumping discontinued, give reason.	20	12.04	20	5.47
	25	12.21	25	5.45
	30	12.32	30	5.42
	40	12.46	40	6.40
	50	12.60	50	5.39
	60	12.70	60	5.32

Plugging and Sealing Record ☒ Annular space ☐ Abandonment

Depth set at - Metres From	Depth set at - Metres To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
6.1	0	Cement Slurry	.4767

Method of Construction

☐ Cable Tool ☐ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☒ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☒ Domestic ☐ Industrial ☐ Public Supply ☐ Other
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☒ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor: A.R. Rod Drilling Ltd. | Well Contractor's Licence No.: 1119

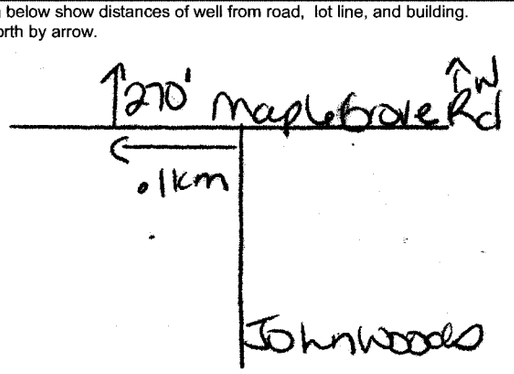
Business Address (street name, number, city etc.): RR#1 Richmond, Ont

Name of Well Technician (last name, first name): Purcell Shannon | Well Technician's Licence No.: T2122

Signature of Technician/Contractor: X [signature] | Date Submitted: 2004 06 28

Location of Well

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



Audit No. Z 14530 | Date Well Completed: 2004 06 11

Was the well owner's information package delivered? ☒ Yes ☐ No | Date Delivered: 2004 06 14

Ministry Use Only

Data Source | Contractor: 1119

Date Received: JUL 08 2004 | Date of Inspection

Remarks | Well Record Number: 1534762

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☒ Well Owner's Copy ☐ *Cette formule est disponible en français*

Appendix E: EcoLog ERIS Report

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Phase One ESA* *1927 Maple Grove Road* *Stittsville ON K2S 1B9*
Project No:	*OTT-00262363-A0*
Report Type:	*Standard Report*
Order No:	*20302000289*
Requested by:	*exp Services Inc.*
Date Completed:	*October 23, 2020*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:	*Phase One ESA* *1927 Maple Grove Road Stittsville ON K2S 1B9*
Project No:	*OTT-00262363-A0*

Coordinates:

Latitude:	*45.283039*
Longitude:	*-75.9305761*
UTM Northing:	*5,014,814.39*
UTM Easting:	*427,018.39*
UTM Zone:	*18T*

Elevation:	*354 FT* *107.88 M*

Order Information:

Order No:	*20302000289*
Date Requested:	*October 20, 2020*
Requested by:	*exp Services Inc.*
Report Type:	*Standard Report*

Historical/Products:

City Directory Search	*CD - Subject Site plus 250m Radius*

Executive Summary: Report Summary

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

Database	Name	Searched	Project Property	Within 0.25 km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	4	4
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	5	5
	Total:	0	14	14	

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	WWIS		1919 MAPLE GROVE RD. lot 1 con 1 STATTSVILLE ON ***Well ID:*** 1534762	NW/55.5	0.00	15
2	WWIS		lot 1 con 1 ON ***Well ID:*** 1513368	WSW/69.3	1.00	21
3	SPL	Enbridge Gas Inc. operating as Enbridge Gas Distribution	61 Mika Street Ottawa ON	E/94.8	1.00	24
4	EHS		53 Mika St Ottawa ON K2S1K6	E/141.7	1.00	25
5	WWIS		53 lot 25 con 12 STITTSVILLE ON ***Well ID:*** 7324690	ESE/150.4	1.00	25
6	ECA	Mattamy (Fairwinds West) Limited	53 Mika St Ottawa ON K2K 2M5	ESE/152.6	1.00	26
7	SPL	ONTARIO HYDRO	LOT 25 CONC 12 (MAPLEGROVE AND ALON ST) TRANSFORMER GOULBOURN TOWNSHIP ON	SW/192.6	1.00	26
8	PINC		40 SWEETBAY CIRCLE, OTTAWA ON	E/193.8	1.00	27
8	SPL	Enbridge Gas Distribution Inc.	40 Sweet Bay Circle Ottawa ON	E/193.8	1.00	27
9	WWIS		lot 1 con 1 ON ***Well ID:*** 1513367	NE/200.0	0.00	28
10	WWIS		lot 1 con 1 ON ***Well ID:*** 1511241	ENE/220.4	0.00	31
11	BORE		ON	ENE/220.5	0.00	34

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
12	EHS		1981 Maple Grove Rd Ottawa ON K2S1B9	W/236.4	0.33	35
13	SPL		287 Denaliway Ottawa ON	SW/249.8	1.00	35

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 1 BORE site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	ON	ENE	220.46	11

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Sep 30, 2020 has found that there are 1 ECA site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Mattamy (Fairwinds West) Limited	53 Mika St Ottawa ON K2K 2M5	ESE	152.64	6

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jul 31, 2020 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	53 Mika St Ottawa ON K2S1K6	E	141.69	4
	1981 Maple Grove Rd Ottawa ON K2S1B9	W	236.42	12

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2017 has found that there are 1 PINC site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	40 SWEETBAY CIRCLE, OTTAWA ON	E	193.77	8

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key

SPL - Ontario Spills

A search of the SPL database, dated 1988-Nov 2019 has found that there are 4 SPL site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Enbridge Gas Inc. operating as Enbridge Gas Distribution	61 Mika Street Ottawa ON	E	94.77	3
ONTARIO HYDRO	LOT 25 CONC 12 (MAPLEGROVE AND ALON ST) TRANSFORMER GOULBOURN TOWNSHIP ON	SW	192.59	7
Enbridge Gas Distribution Inc.	40 Sweet Bay Circle Ottawa ON	E	193.77	8
	287 Denaliway Ottawa ON	SW	249.75	13

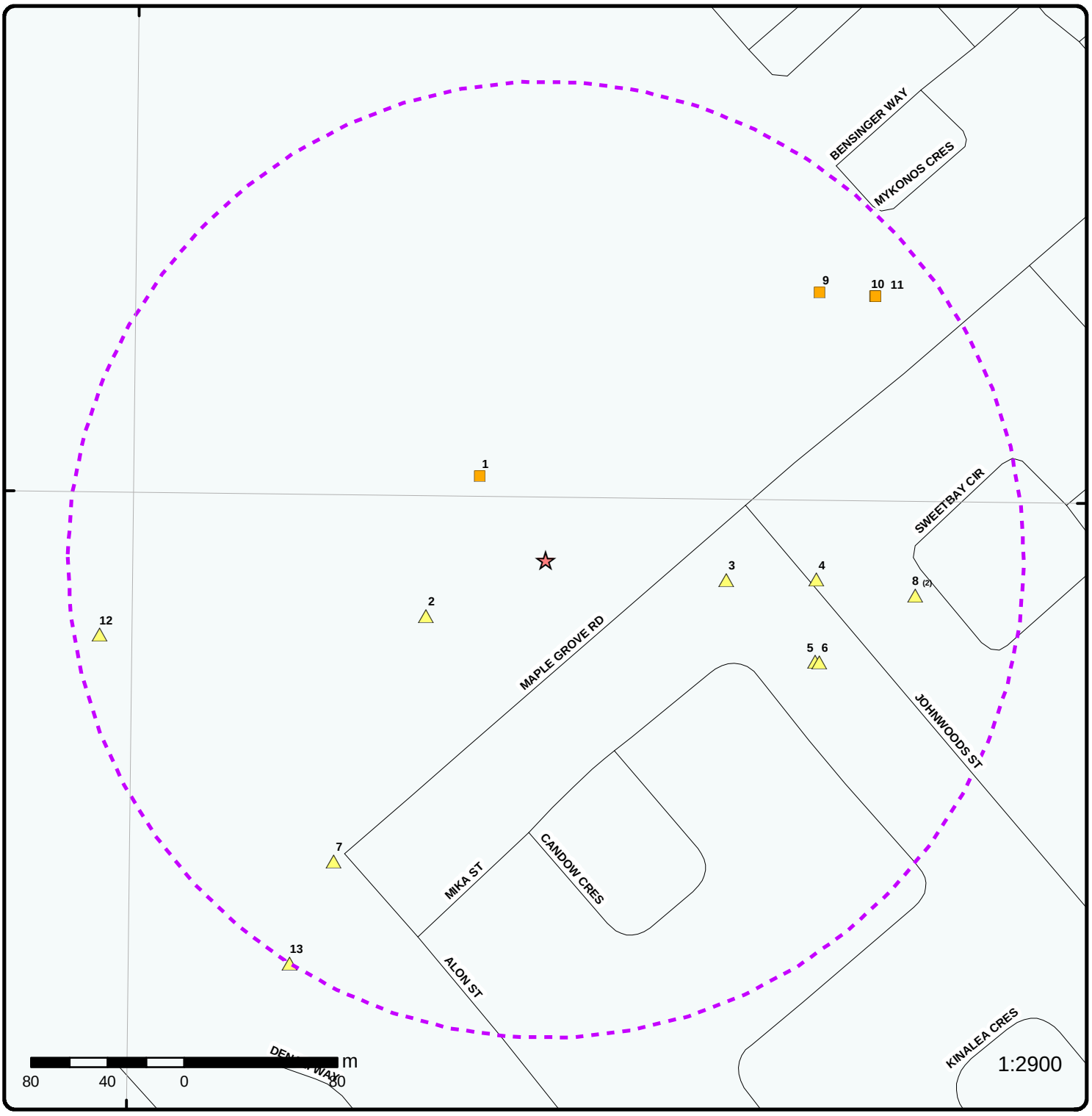
WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 5 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	1919 MAPLE GROVE RD. lot 1 con 1 STATTSVILLE ON ***Well ID:*** 1534762	NW	55.54	1
	lot 1 con 1 ON ***Well ID:*** 1513368	WSW	69.33	2
	53 lot 25 con 12 STITTSVILLE ON ***Well ID:*** 7324690	ESE	150.40	5
	lot 1 con 1 ON ***Well ID:*** 1513367	NE	200.00	9

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	lot 1 con 1 ON	ENE	220.43	10

Well ID: 1511241



Map : 0.25 Kilometer Radius

Order Number: 20302000289

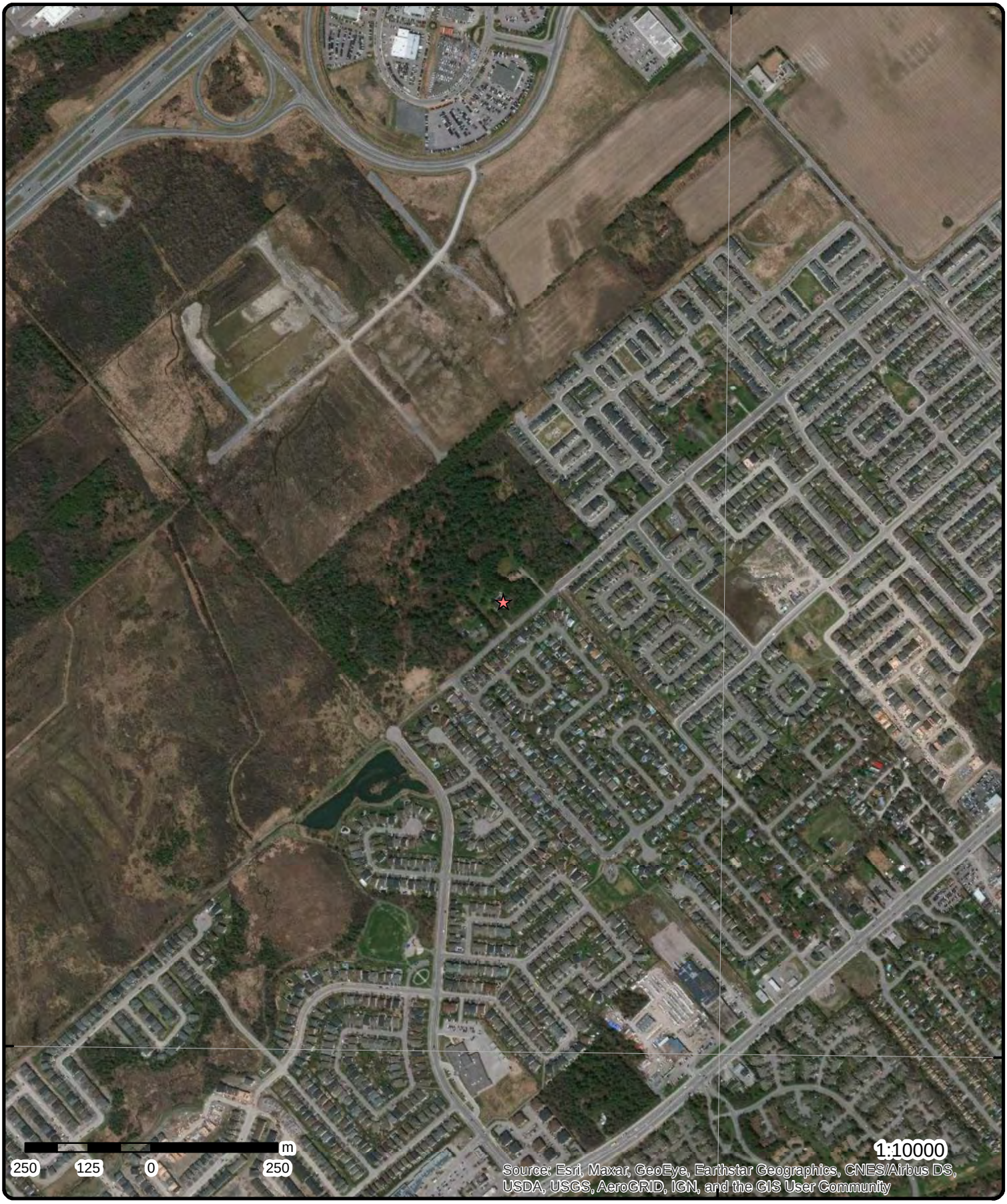
Address: 1927 Maple Grove Road, Stittsville, ON

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

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

75°55'30"W

45°16'30"N



45°16'30"N

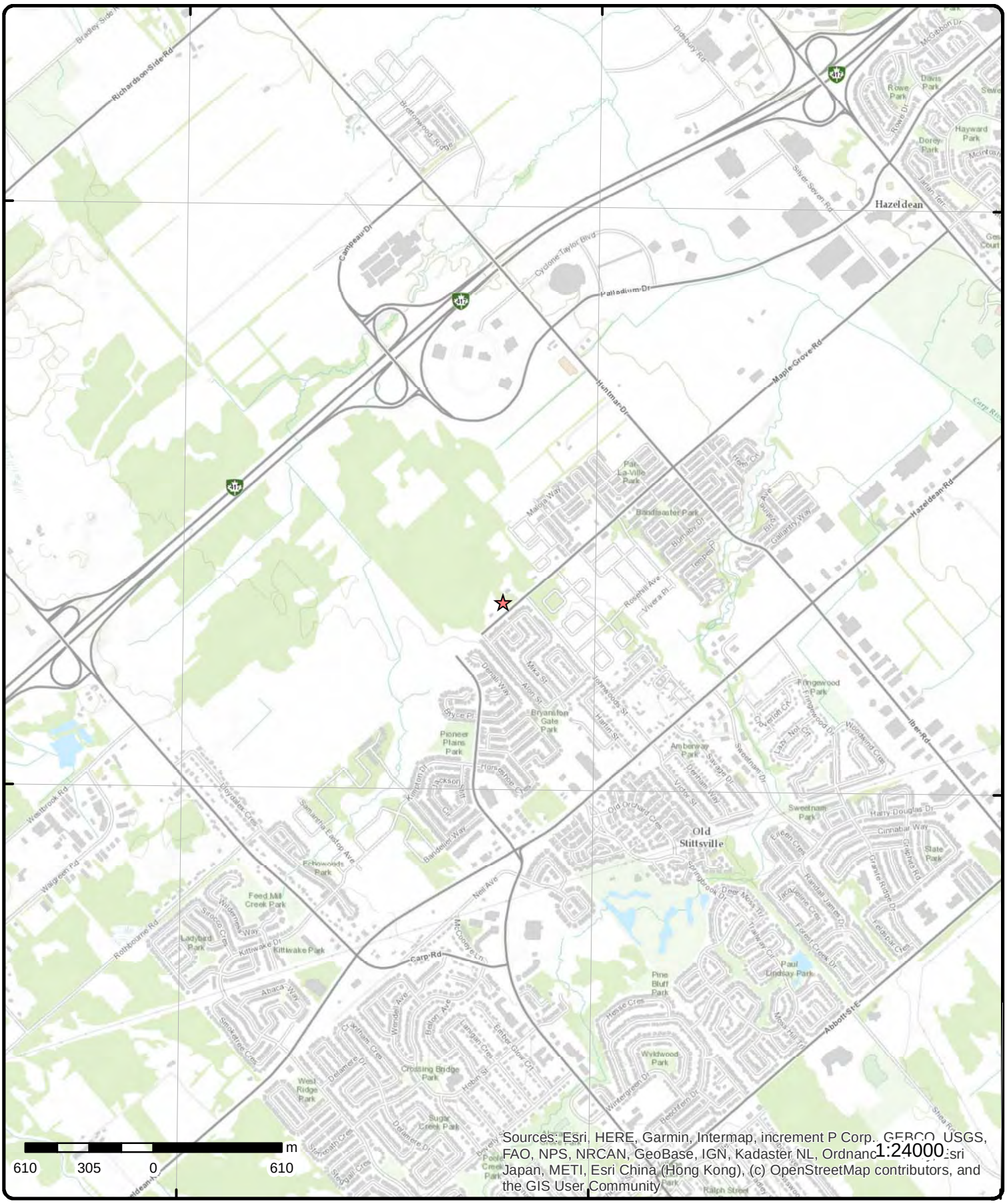
Aerial **Year: 2019**

Order Number: 20302000289

Address: 1927 Maple Grove Road, Stittsville, ON

Source: ESRI World Imagery

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES



Topographic Map

Address: 1927 Maple Grove Road, ON

Source: ESRI World Topographic Map

Order Number: 20302000289

ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	NW/55.5	107.9 / 0.00	1919 MAPLE GROVE RD. lot 1 con 1 STATTSVILLE ON	WWIS

Well ID:	1534762	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	7/8/2004
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	3
Audit No:	Z14530	**Owner:**	
Tag:	A014419	**Street Name:**	1919 MAPLE GROVE RD.
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	HUNTLEY TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	001
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
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/153\1534762.pdf

Bore Hole Information

Bore Hole ID:	11172514	**Elevation:**	107.452232
DP2BR:	15	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	426984
Code OB Desc:	Bedrock	**North83:**	5014858
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	6/11/2004	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932968089
Layer:	2
Color:	5
General Color:	YELLOW
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	

Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 4.6
Formation End Depth: 39.6
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 932968088
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 4.6
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933252931
Layer: 1
Plug From: 6.1
Plug To: 0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 961534762
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 11181033
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930842592
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 0
Depth To: 6.7
Casing Diameter: 15.88
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 930842593
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 6.1
Depth To: 39.6
Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM: m

Results of Well Yield Testing

Pump Test ID: 11189428
Pump Set At:
Static Level: 4.96
Final Level After Pumping: 12.7
Recommended Pump Depth: 30.4
Pumping Rate: 91
Flowing Rate:
Recommended Pump Rate: 91
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 11222632
Test Type: Recovery
Test Duration: 1
Test Level: 8.95
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222631
Test Type: Draw Down
Test Duration: 1
Test Level: 7.58
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222651
Test Type: Draw Down
Test Duration: 40
Test Level: 12.46
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222644
Test Type: Recovery
Test Duration: 15
Test Level: 5.8
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222654
Test Type: Recovery
Test Duration: 50
Test Level: 5.37
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222641
Test Type: Draw Down
Test Duration: 10
Test Level: 11.62
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222642
Test Type: Recovery
Test Duration: 10
Test Level: 6.02
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222646
Test Type: Recovery
Test Duration: 20
Test Level: 5.47
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222640
Test Type: Recovery
Test Duration: 5
Test Level: 6.49
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222655
Test Type: Draw Down
Test Duration: 60
Test Level: 12.7
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222656
Test Type: Recovery
Test Duration: 60
Test Level: 5.32
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222648

Test Type: Recovery
Test Duration: 25
Test Level: 5.45
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222634
Test Type: Recovery
Test Duration: 2
Test Level: 7.41
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222649
Test Type: Draw Down
Test Duration: 30
Test Level: 12.32
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222645
Test Type: Draw Down
Test Duration: 20
Test Level: 12.04
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222643
Test Type: Draw Down
Test Duration: 15
Test Level: 11.8
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222633
Test Type: Draw Down
Test Duration: 2
Test Level: 8.88
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222638
Test Type: Recovery
Test Duration: 4
Test Level: 6.72
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222650
Test Type: Recovery
Test Duration: 30
Test Level: 5.42
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222647
Test Type: Draw Down
Test Duration: 25
Test Level: 12.21
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222635
Test Type: Draw Down
Test Duration: 3
Test Level: 9.7
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222653
Test Type: Draw Down
Test Duration: 50
Test Level: 12.6
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222636
Test Type: Recovery
Test Duration: 3
Test Level: 7.02
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222639
Test Type: Draw Down
Test Duration: 5
Test Level: 10.65
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222637
Test Type: Draw Down
Test Duration: 4
Test Level: 10.26
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 11222652
Test Type: Recovery
Test Duration: 40
Test Level: 5.4
Test Level UOM: m

Water Details

Water ID:	934050106
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	36.9
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	11305573
Diameter:	15.23
Depth From:	0
Depth To:	39.6
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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2 | ***1 of 1*** | ***WSW/69.3*** | ***108.9 / 1.00*** | ***lot 1 con 1 ON*** | ***WWIS***

Well ID:	1513368	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	8/13/1973
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	HUNTLEY TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	001
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
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/151\1513368.pdf

Bore Hole Information

Bore Hole ID:	10035355	**Elevation:**	107.854187
DP2BR:	10	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	426955.6
Code OB Desc:	Bedrock	**North83:**	5014785
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	6/11/1973	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931023181
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	48
Formation End Depth:	73
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931023179
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Mat2 Desc:	SAND
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	10
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931023180
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	10
Formation End Depth:	48
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961513368
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10583925
Casing No:	1
Comment:	

Alt Name:

Construction Record - Casing

Casing ID:	930062613
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:	930062614
Layer:	2
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	73
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991513368
Pump Set At:	
Static Level:	20
Final Level After Pumping:	50
Recommended Pump Depth:	55
Pumping Rate:	10
Flowing Rate:	
Recommended Pump Rate:	5
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	3
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934378595
Test Type:	Draw Down
Test Duration:	30
Test Level:	50
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934099203
Test Type:	Draw Down
Test Duration:	15
Test Level:	50
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934897061
Test Type:	Draw Down
Test Duration:	60
Test Level:	50
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934639590
Test Type:	Draw Down
Test Duration:	45
Test Level:	50
Test Level UOM:	ft

Water Details

Water ID:	933468906
Layer:	3
Kind Code:	1
Kind:	FRESH
Water Found Depth:	72
Water Found Depth UOM:	ft

Water Details

Water ID:	933468905
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	48
Water Found Depth UOM:	ft

Water Details

Water ID:	933468904
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	35
Water Found Depth UOM:	ft

3 ***1 of 1*** ***E/94.8*** ***108.9 / 1.00*** ***Enbridge Gas Inc. operating as Enbridge Gas Distribution***
61 Mika Street
Ottawa ON ***SPL***

Ref No:	7845-BF8Q9X	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	8/20/2019	***Health/Env Conseq:***	2 - Minor Environment
Year:		***Client Type:***	Corporation
Incident Cause:		***Sector Type:***	Miscellaneous Industrial
Incident Event:	Leak/Break	***Agency Involved:***	
Contaminant Code:	35	***Nearest Watercourse:***	
Contaminant Name:	NATURAL GAS (METHANE)	***Site Address:***	61 Mika Street
Contaminant Limit 1:		***Site District Office:***	Ottawa
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:	1075	***Site Region:***	Eastern
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Receiving Env:	Air	**Northing:**	
MOE Response:	No	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	8/20/2019	**Site Map Datum:**	
Dt Document Closed:	10/24/2019	**SAC Action Class:**	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Incident Reason:	Operator/Human Error	**Source Type:**	Pipeline/Components
Site Name:	residential<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	TSSA 1/2 inch line damage, made safe		
Contaminant Qty:	0 other - see incident description		

4	1 of 1	E/141.7	108.9 / 1.00	53 Mika St Ottawa ON K2S1K6	EHS

Order No:	20180322224	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	02-APR-18	**Search Radius (km):**	.25
Date Received:	22-MAR-18	**X:**	-75.928773
Previous Site Name:		**Y:**	45.282961
Lot/Building Size:			
Additional Info Ordered:			

5	1 of 1	ESE/150.4	108.9 / 1.00	53 lot 25 con 12 STITTSVILLE ON	WWIS

Well ID:	7324690	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	12/21/2018
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	4875
Casing Material:		**Form Version:**	7
Audit No:	Z252115	**Owner:**	
Tag:		**Street Name:**	53
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	GOULBOURN TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	025
Well Depth:		**Concession:**	12
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map):

Bore Hole Information

Bore Hole ID:	1007325793	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	427159
Code OB Desc:		**North83:**	5014761
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	9/21/2018	**UTMRC Desc:**	margin of error : 30 m - 100 m

Remarks: ***Location Method:*** gis
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Pipe Information

Pipe ID: 1007731244
Casing No: 0
Comment:
Alt Name:

Results of Well Yield Testing

Pump Test ID: 1007731468
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

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6 | ***1 of 1*** | ***ESE/152.6*** | ***108.9 / 1.00*** | ***Mattamy (Fairwinds West) Limited***
53 Mika St
Ottawa ON K2K 2M5 | ***ECA***

Approval No: 3430-AXNLMK ***MOE District:***
Approval Date: 2018-04-13 ***City:***
Status: Approved ***Longitude:***
Record Type: ECA ***Latitude:***
Link Source: IDS ***Geometry X:***
SWP Area Name: ***Geometry Y:***
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: 53 Mika St
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1787-AX9LNA-14.pdf

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7 | ***1 of 1*** | ***SW/192.6*** | ***108.9 / 1.00*** | ***ONTARIO HYDRO***
LOT 25 CONC 12 (MAPLEGROVE AND ALON ST)
TRANSFORMER
GOULBOURN TOWNSHIP ON | ***SPL***

Ref No: 160681 ***Discharger Report:***
Site No: ***Material Group:***
Incident Dt: 10/1/1998 ***Health/Env Conseq:***
Year: ***Client Type:***
Incident Cause: COOLING SYSTEM LEAK ***Sector Type:***
Incident Event: ***Agency Involved:***
Contaminant Code: ***Nearest Watercourse:***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	CONFIRMED	**Site Municipality:**	20604
Nature of Impact:	Soil contamination	**Site Lot:**	
Receiving Medium:	LAND	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	10/1/1998	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	EQUIPMENT FAILURE	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ONT HYDRO-387 L NON-PCB X-FORMER OIL SPRAY TO GNDAND BLDGS. CLEANING.		
Contaminant Qty:			

8	1 of 2	E/193.8	108.9 / 1.00	40 SWEETBAY CIRCLE, OTTAWA ON	PINC

Incident ID:		**Health Impact:**	
Incident No:	1956844	**Environment Impact:**	
Type:	FS-Pipeline Incident	**Property Damage:**	No
Status Code:	Pipeline Damage Reason Est	**Service Interupt:**	
Fuel Occurrence Tp:		**Enforce Policy:**	Yes
Fuel Type:		**Public Relation:**	
Tank Status:	RC Established	**Pipeline System:**	
Task No:	6376578	**Depth:**	
Spills Action Centre:		**Pipe Material:**	
Method Details:	E-mail	**PSIG:**	
Fuel Category:	Natural Gas	**Attribute Category:**	FS-Perform P-line Inc Invest
Date of Occurrence:		**Regulator Location:**	
Occurrence Start Date:	2016/10/11		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:	40 SWEETBAY CIRCLE, OTTAWA - PIPELINE HIT - 1/2"		
Reported By:	John Hardie - ENBRIDGE		
Affiliation:			
Occurrence Desc:			
Damage Reason:	Excavation practices not sufficient		
Notes:			

8	2 of 2	E/193.8	108.9 / 1.00	Enbridge Gas Distribution Inc. 40 Sweet Bay Circle Ottawa ON	SPL

Ref No:	6013-AEMK4G	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	10/11/2016	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	35	**Nearest Watercourse:**	
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	40 Sweet Bay Circle
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:		**Site Municipality:**	Ottawa

Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Air	**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	10/11/2016	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Air Spills - Gases and Vapours
Incident Reason:	Operator/Human Error	**Source Type:**	
Site Name:	Residential Property<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	TSSA 1/2" plastic service line strike, made safe, Ottawa, ON		
Contaminant Qty:	0 other - see incident description		

9 **1 of 1** **NE/200.0** **107.9 / 0.00** **lot 1 con 1 ON** **WWIS**

Well ID:	1513367	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	8/13/1973
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	HUNTLEY TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	001
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
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/151\1513367.pdf

Bore Hole Information

Bore Hole ID:	10035354	**Elevation:**	106.976394
DP2BR:	9	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	427161.6
Code OB Desc:	Bedrock	**North83:**	5014954
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	6/11/1973	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 931023178

Layer:	4
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	125
Formation End Depth:	223
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931023175
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Mat2 Desc:	SAND
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	9
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931023176
Layer:	2
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	9
Formation End Depth:	105
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931023177
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	105
Formation End Depth:	125
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961513367
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	10583924
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930062611
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:	930062612
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	223
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991513367
Pump Set At:	
Static Level:	30
Final Level After Pumping:	90
Recommended Pump Depth:	110
Pumping Rate:	6
Flowing Rate:	
Recommended Pump Rate:	5
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:	934378594
Test Type:	Draw Down
Test Duration:	30
Test Level:	90
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934099202
Test Type:	Draw Down
Test Duration:	15
Test Level:	90
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934639589
Test Type:	Draw Down
Test Duration:	45
Test Level:	90
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934897060
Test Type:	Draw Down
Test Duration:	60
Test Level:	90
Test Level UOM:	ft

Water Details

Water ID:	933468903
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	220
Water Found Depth UOM:	ft

Water Details

Water ID:	933468902
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	85
Water Found Depth UOM:	ft

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10 ***1 of 1*** ***ENE/220.4*** ***107.9 / 0.00*** ***lot 1 con 1 ON*** ***WWIS***

Well ID:	1511241	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	7/7/1971
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	3504
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	OTTAWA

Elevation (m):		**Municipality:**	HUNTLEY TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	001
Well Depth:		**Concession:**	01
Overburden/Bedrock:		**Concession Name:**	CON
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/151\1511241.pdf

Bore Hole Information

Bore Hole ID:	10033238	**Elevation:**	106.948577
DP2BR:	8	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	427190.6
Code OB Desc:	Bedrock	**North83:**	5014952
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	6/4/1971	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931017120
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	8
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931017121
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	8
Formation End Depth:	88

Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961511241
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10581808
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930058991
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 20
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991511241
Pump Set At:
Static Level: 8
Final Level After Pumping: 45
Recommended Pump Depth: 65
Pumping Rate: 7
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934097774
Test Type: Recovery
Test Duration: 15
Test Level: 22
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934381760
Test Type: Recovery
Test Duration: 30

Test Level: 11
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934900817
Test Type: Recovery
Test Duration: 60
Test Level: 9
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934643338
Test Type: Recovery
Test Duration: 45
Test Level: 9
Test Level UOM: ft

Water Details

Water ID: 933466341
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 84
Water Found Depth UOM: ft

Water Details

Water ID: 933466340
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 60
Water Found Depth UOM: ft

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11 ***1 of 1*** ***ENE/220.5*** ***107.9 / 0.00*** ***ON*** ***BORE***

Borehole ID: 609623
OGF ID: 215511239
Status:
Type: Borehole
Use:
Completion Date: JUN-1971
Static Water Level:
Primary Water Use:
Sec. Water Use:
Total Depth m: 26.8
Depth Ref: Ground Surface
Depth Elev:
Drill Method:
Orig Ground Elev m: 106
Elev Reliabil Note:
DEM Ground Elev m: 106
Concession:
Location D:
Survey D:
Comments:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 45.284295
Longitude DD: -75.9284
UTM Zone: 18
Easting: 427191
Northing: 5014952
Location Accuracy:
Accuracy: Not Applicable

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Borehole Geology Stratum

Geology Stratum ID:	218383662	***Mat Consistency:***	
Top Depth:	2.4	***Material Moisture:***	
Bottom Depth:	26.8	***Material Texture:***	
Material Color:	Grey	***Non Geo Mat Type:***	
Material 1:	Limestone	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	LIMESTONE. GREY. 00060 00045RS. GREY. LIMESTONE. GREY. 00111SEISMIC VELOCITY = 1150 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218383661	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	2.4	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Soil	***Geologic Formation:***	
Material 2:	Clay	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SOIL,CLAY.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	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: OTTAWA1.txt RecordID: 02131 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		

12	***1 of 1***	***W/236.4***	***108.2 / 0.33***	***1981 Maple Grove Rd Ottawa ON K2S1B9***	***EHS***

Order No:	20170712026	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Custom Report	***Client Prov/State:***	ON
Report Date:	19-JUL-17	***Search Radius (km):***	.25
Date Received:	12-JUL-17	***X:***	-75.933543
Previous Site Name:		***Y:***	45.282663
Lot/Building Size:			
Additional Info Ordered:			

13	***1 of 1***	***SW/249.8***	***108.9 / 1.00***	***287 Denaliway Ottawa ON***	***SPL***

Ref No:	2041-9ELUXJ	***Discharger Report:***	
Site No:		***Material Group:***	

Incident Dt:	2013/12/21	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Dumping	***Sector Type:***	Sewer (Private or Municipal)
Incident Event:		***Agency Involved:***	
Contaminant Code:	12	***Nearest Watercourse:***	
Contaminant Name:	GASOLINE	***Site Address:***	287 Denaliway
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Possible	***Site Municipality:***	Ottawa
Nature of Impact:	Surface Water Pollution	***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:	2013/12/21	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:	Operator/Human Error	***Source Type:***	
Site Name:	Catch Basin <UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Ottawa - gasoline to catch basin, source unknown.		
Contaminant Qty:	0 other - see incident description		

Unplottable Summary

Total: 26 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 26 Con 12	West Carleton ON	
AAGR		Lot 26 Con 12	West Carleton ON	
CA	Mattamy (Fairwinds North) Limited		Ottawa ON	
CA	Mattamy (Fairwinds) Limited		Ottawa ON	
CA	Mattamy (Fairwinds) Limited		Ottawa ON	
CA	Mattamy (Fairwinds) Limited		Ottawa ON	
CA	Mattamy (Fairwinds) Limited		Ottawa ON	
CA	Mattamy (Fairwinds North) Limited		Ottawa ON	
CA	Mattamy (Fairwinds) Limited	Kanata	Ottawa ON	
CA	Mattamy (Fairwinds) Limited		Ottawa ON	
CA	Mattamy (Fairwinds North) Limited		Ottawa ON	
CA	Mattamy (Fairwinds) Limited		Ottawa ON	
CA	Mattamy (Fairwinds) Limited		Ottawa ON	
CA	TOWNSHIP OF GOULBOURN	LOT 25/CONC.XII FRINGEWOOD P.S	GOULBOURN TWP. ON	
CA	OTTAWA WEST DEVELOPMENT LTD.	PART N.E. 1/2 LOT 25/CON. XII	GOULBOURN TWP. ON	
CA	PHIL SWEETNAM MOBILE HOME PARK	LOT 26/CONC. 12, SEPTIC TANKS	GOULBURN TWP. ON	
ECA	Mattamy (Fairwinds North) Limited	Part 1, Reference Plan M	Ottawa ON	K2K 2M5
ECA	Mattamy (Fairwinds) Limited		Ottawa ON	K2K 2M5

ECA	Mattamy (Fairwinds North) Limited		Ottawa ON	K2K 2M5
GEN	NATIONAL CAPITAL COMMISSION	LOT 25,26,27	OTTAWA ON	K1P 1C7
ORD	Relocatable Homes Limited	Lot 26, Concess12, Fringewood North Mobile Home Park GOULBOURN	ON	
PTTW	Mattamy (Fairwinds) Limited	Lot: 1, Concession: 1 Huntley Twp, Ottawa, City Lot: 26, 27 and 28, Concession: 12 Goulbourn Twp, Ottawa City CITY OF OTTAWA	ON	
PTTW	Mattamy (Fairwinds) Limited		ON	
SPL	Taggart Construction Limited	Maple Grove Rd	Ottawa ON	
WWIS		lot 25	ON	
WWIS		lot 25	ON	

Unplottable Report

Site:
Lot 26 Con 12 West Carleton ON

Database: ***AAGR***

Type:	Pit
Region/County:	Ottawa-Carleton
Township:	West Carleton
Concession:	12
Lot:	26
Size (ha):	
Landuse:	
Comments:	rehabilitated

Site:
Lot 26 Con 12 West Carleton ON

Database: ***AAGR***

Type:	Pit
Region/County:	Ottawa-Carleton
Township:	West Carleton
Concession:	12
Lot:	26
Size (ha):	0.2
Landuse:	
Comments:	

Site: ***Mattamy (Fairwinds North) Limited***
Ottawa ON

Database: ***CA***

Certificate #:	0316-7QER2U
Application Year:	2009
Issue Date:	4/8/2009
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Mattamy (Fairwinds) Limited***
Ottawa ON

Database: ***CA***

Certificate #:	5148-73NQFA
Application Year:	2007
Issue Date:	6/6/2007
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	

Emission Control:

Site: ***Mattamy (Fairwinds) Limited***
Ottawa ON

Database: ***CA***

Certificate #: 9555-772NK7
Application Year: 2007
Issue Date: 9/17/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Mattamy (Fairwinds) Limited***
Ottawa ON

Database: ***CA***

Certificate #: 0455-893NVG
Application Year: 2010
Issue Date: 9/9/2010
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Mattamy (Fairwinds) Limited***
Ottawa ON

Database: ***CA***

Certificate #: 0955-7SUPV3
Application Year: 2009
Issue Date: 12/23/2009
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Mattamy (Fairwinds North) Limited***
Ottawa ON

Database: ***CA***

Certificate #: 3072-772PDS
Application Year: 2007
Issue Date: 9/17/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:

Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Mattamy (Fairwinds) Limited***
Kanata Ottawa ON

Database: ***CA***

Certificate #: 4522-79CTLZ
Application Year: 2007
Issue Date: 11/28/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Mattamy (Fairwinds) Limited***
Ottawa ON

Database: ***CA***

Certificate #: 9060-76ASEZ
Application Year: 2007
Issue Date: 8/24/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Mattamy (Fairwinds North) Limited***
Ottawa ON

Database: ***CA***

Certificate #: 9354-7SUKYU
Application Year: 2009
Issue Date: 8/21/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Mattamy (Fairwinds) Limited***
Ottawa ON

Database: ***CA***

Certificate #: 9553-8J8JHZ
Application Year: 2011

Issue Date: 6/30/2011
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Mattamy (Fairwinds) Limited***
Ottawa ON

Database: ***CA***

Certificate #: 4652-8J5K9D
Application Year: 2011
Issue Date: 7/4/2011
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***TOWNSHIP OF GOULBOURN***
LOT 25/CONC.XII FRINGEWOOD P.S GOULBOURN TWP. ON

Database: ***CA***

Certificate #: 8-4035-93-
Application Year: 93
Issue Date: 4/22/1993
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: 30KW DIESEL GENERATOR FOR SEW. PUMP STA.
Contaminants: Nitrogen Oxides
Emission Control: No Controls

Site: ***OTTAWA WEST DEVELOPMENT LTD.***
PART N.E. 1/2 LOT 25/CON. XII GOULBOURN TWP. ON

Database: ***CA***

Certificate #: 8-4023-90-
Application Year: 90
Issue Date: 4/25/1990
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: STANDBY DIESEL GENERATOR
Contaminants: Nitrogen Oxides
Emission Control:

Site: ***PHIL SWEETNAM MOBILE HOME PARK***
LOT 26/CONC. 12, SEPTIC TANKS GOULBURN TWP. ON

Database: ***CA***

Certificate #:	3-1529-94-
Application Year:	94
Issue Date:	12/23/1994
Approval Type:	Municipal sewage
Status:	Preliminary approval
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Mattamy (Fairwinds North) Limited***
Part 1, Reference Plan M Ottawa ON K2K 2M5

Database: ***ECA***

Approval No:	6206-8X7JWX	***MOE District:***	
Approval Date:	2012-08-16	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Address:	Part 1, Reference Plan M		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4053-8VWQZH-14.pdf		

Site: ***Mattamy (Fairwinds) Limited***
Ottawa ON K2K 2M5

Database: ***ECA***

Approval No:	3306-9AQR9K	***MOE District:***	
Approval Date:	2013-08-26	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/2685-988R2T-14.pdf		

Site: ***Mattamy (Fairwinds North) Limited***
Ottawa ON K2K 2M5

Database: ***ECA***

Approval No:	1716-9CHP4Z	***MOE District:***	
Approval Date:	2013-11-04	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6344-99RLLF-14.pdf		

Site: ***NATIONAL CAPITAL COMMISSION***

Database: ***GEN***

LOT 25,26,27 OTTAWA ON K1P 1C7

Generator No:	ON9920165	***PO Box No:***	
Status:		***Country:***	
Approval Years:	2010	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	712190		
SIC Description:	Other Heritage Institutions		

Detail(s)

Waste Class:	221
Waste Class Desc:	LIGHT FUELS

Site: ***Relocatable Homes Limited***
Lot 26, Concess12, Fringewood North Mobile Home Park GOULBOURN ON

Database: ***ORD***

EBR Registry No:	IA00E1222	***Decision Posted:***	
Ministry Ref No:	ER-5459	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	October 27, 2000	***Act 2:***	
Proposal Date:	July 26, 2000	***Site Location Map:***	
Year:	2000		
Instrument Type:	(OWRA s. 53(3)) - Order for unapproved sewage works.		
Off Instrument Name:			
Posted By:			
Company Name:	Relocatable Homes Limited		
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:	8A Sweetname Drive, Stittsville Ontario, K2S 1G2		
Comment Period:			
URL:			

Site Location Details:

Lot 26, Concess12, Fringewood North Mobile Home Park GOULBOURN

Site: ***Mattamy (Fairwinds) Limited***
Lot: 1, Concession: 1 Huntley Twp, Ottawa, City Lot: 26, 27 and 28, Concession: 12 Goulbourn Twp, Ottawa City CITY OF OTTAWA ON

Database: ***PTTW***

EBR Registry No:	010-5626	***Decision Posted:***	
Ministry Ref No:	4636-7MMLJ6	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	November 18, 2014	***Act 2:***	
Proposal Date:	January 08, 2009	***Site Location Map:***	
Year:	2009		
Instrument Type:	(OWRA s. 34) - Permit to Take Water		
Off Instrument Name:			
Posted By:			
Company Name:	Mattamy (Fairwinds) Limited		
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:	123 Huntmar Drive, Kanata Ontario, Canada K2S 1B9		
Comment Period:			
URL:			

Site Location Details:

Lot: 1, Concession: 1 Huntley Twp, Ottawa, City Lot: 26, 27 and 28, Concession: 12 Goulbourn Twp, Ottawa City CITY OF OTTAWA

Site: ***Mattamy (Fairwinds) Limited ON*** **Database:** ***PTTW***

EBR Registry No:	010-3712	***Decision Posted:***	
Ministry Ref No:	3833-7F3JSF	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	April 28, 2009	***Act 2:***	
Proposal Date:	July 15, 2008	***Site Location Map:***	
Year:	2008		
Instrument Type:	(OWRA s. 34) - Permit to Take Water		
Off Instrument Name:			
Posted By:			
Company Name:	Mattamy (Fairwinds) Limited		
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:	123 Huntmar Drive, Kanata Ontario, Canada K2S 1B9		
Comment Period:			
URL:			

Site Location Details:

Area 1 - Lot 1, Concession 1 Geo. Twp. of Huntley, City of Ottawa Area 2 - Lot 27, 28, Concession 12 Geo. Twp. of Goulbourn, City of Ottawa Area 3 - Lot 27, 28, Concession 12 Geo. Twp. of Goulbourn, City of Ottawa Area 4 - Lot 1, Concession 1 Geo. Twp. of Huntley; and, Lots 26, 27 and 28, Concession 12 Geo. Twp. of Goulbourn, City of Ottawa District Office: Ottawa GeoReference: Map Datum: NAD83, Zone: 18, Accuracy Estimate: 10-30 metres eg. Medium Quality GPS, Method: Map, UTM Easting: 427009, UTM Northing: 5014902 CITY OF OTTAWA

Site: ***Taggart Construction Limited Maple Grove Rd Ottawa ON*** **Database:** ***SPL***

Ref No:	3642-AGCRUN	***Discharger Report:***	
Site No:	NA	***Material Group:***	
Incident Dt:	2016/12/01	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***Sector Type:***	Other
Incident Event:	Other	***Agency Involved:***	
Contaminant Code:	43	***Nearest Watercourse:***	
Contaminant Name:	SEDIMENT(SUSPENDED SOLIDS/ SAND/ SILT)	***Site Address:***	Maple Grove Rd
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	Ottawa
Nature of Impact:		***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:	Surface Water	***Northing:***	5016168
MOE Response:	No	***Easting:***	428634
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	2016/12/05	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Watercourse Spills
Incident Reason:	Weather Conditions	***Source Type:***	
Site Name:	Pool Creek<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Taggart Construction - Sediment to Poole Creek		
Contaminant Qty:			

Site: ***lot 25 ON*** **Database:** ***WWIS***

Well ID:	1523747	***Data Entry Status:***	
Construction Date:		***Data Src:***	1

Primary Water Use: Industrial
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 49862
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:

Date Received: 8/4/1989
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: OTTAWA CITY
Site Info:
Lot: 025
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10045521
DP2BR: 32
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 6/12/1989
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: 931055593
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 82
Mat2 Desc: SHALY
Mat3:
Mat3 Desc:
Formation Top Depth: 32
Formation End Depth: 250
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931055592
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:

Formation Top Depth: 0
Formation End Depth: 32
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961523747
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10594091
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930079668
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 250
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930079667
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 36
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991523747
Pump Set At:
Static Level: 19
Final Level After Pumping: 100
Recommended Pump Depth: 100
Pumping Rate: 14
Flowing Rate:
Recommended Pump Rate: 14
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: 934106105

Test Type:
Test Duration: 15
Test Level: 100
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390332
Test Type:
Test Duration: 30
Test Level: 100
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934651310
Test Type:
Test Duration: 45
Test Level: 100
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934908516
Test Type:
Test Duration: 60
Test Level: 100
Test Level UOM: ft

Water Details

Water ID: 933482122
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 60
Water Found Depth UOM: ft

Water Details

Water ID: 933482123
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 225
Water Found Depth UOM: ft

Site:
lot 25 ON

Database:
WWIS

Well ID: 1525674
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 92040
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Data Entry Status:
Data Src: 1
Date Received: 10/21/1991
Selected Flag: Yes
Abandonment Rec:
Contractor: 3644
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GOULBOURN TOWNSHIP
Site Info:
Lot: 025
Concession:
Concession Name:

Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047409
DP2BR: 0
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 7/29/1991
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: 931061988
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2
Formation End Depth: 223
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931061987
Layer: 1
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 2
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961525674
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID:	10595979
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930082986
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	223
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930082985
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

Results of Well Yield Testing

Pump Test ID:	991525674
Pump Set At:	
Static Level:	45
Final Level After Pumping:	210
Recommended Pump Depth:	210
Pumping Rate:	5
Flowing Rate:	
Recommended Pump Rate:	5
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:	934388708
Test Type:	
Test Duration:	30
Test Level:	210
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934105049
Test Type:	
Test Duration:	15
Test Level:	210
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID: 934649246
Test Type:
Test Duration: 45
Test Level: 210
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934906426
Test Type:
Test Duration: 60
Test Level: 210
Test Level UOM: ft

Water Details

Water ID: 933484726
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 120
Water Found Depth UOM: ft

Water Details

Water ID: 933484727
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 218
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 2019

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-Jun 30, 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.
Environment and Climate Change Canada cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: Jan 2004-Dec 2017

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: Jul 31, 2020

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-Jun 30, 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 - Jun 2020

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-Dec 2019

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-Sep 30, 2020

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 2019

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: Jul 31, 2020

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-Sep 30, 2020

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-Sep 30, 2020

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-Sep 30, 2020

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-Jul 31, 2020

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

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, 2019

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: Jul 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-Apr 2020

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-Jul 31, 2020

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 2017

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 in 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: Jul 31, 2020

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-Jan 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, 2018

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-Mar 31, 2020

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-Aug 31, 2020

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-Jun 2020

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-Sep 30, 2020

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-Sep 30, 2020

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 in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.
The coronavirus pandemic is cited by the agency responsible for tank regulations and data as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994-Sep 30, 2020

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-2016

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Sep 2020

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-Jun 30, 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.
The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: 1988-Nov 2019

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, 2017

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970-Aug 2018

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: Jul 31, 2020

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-Sep 30, 2020

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under 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, 2020

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.

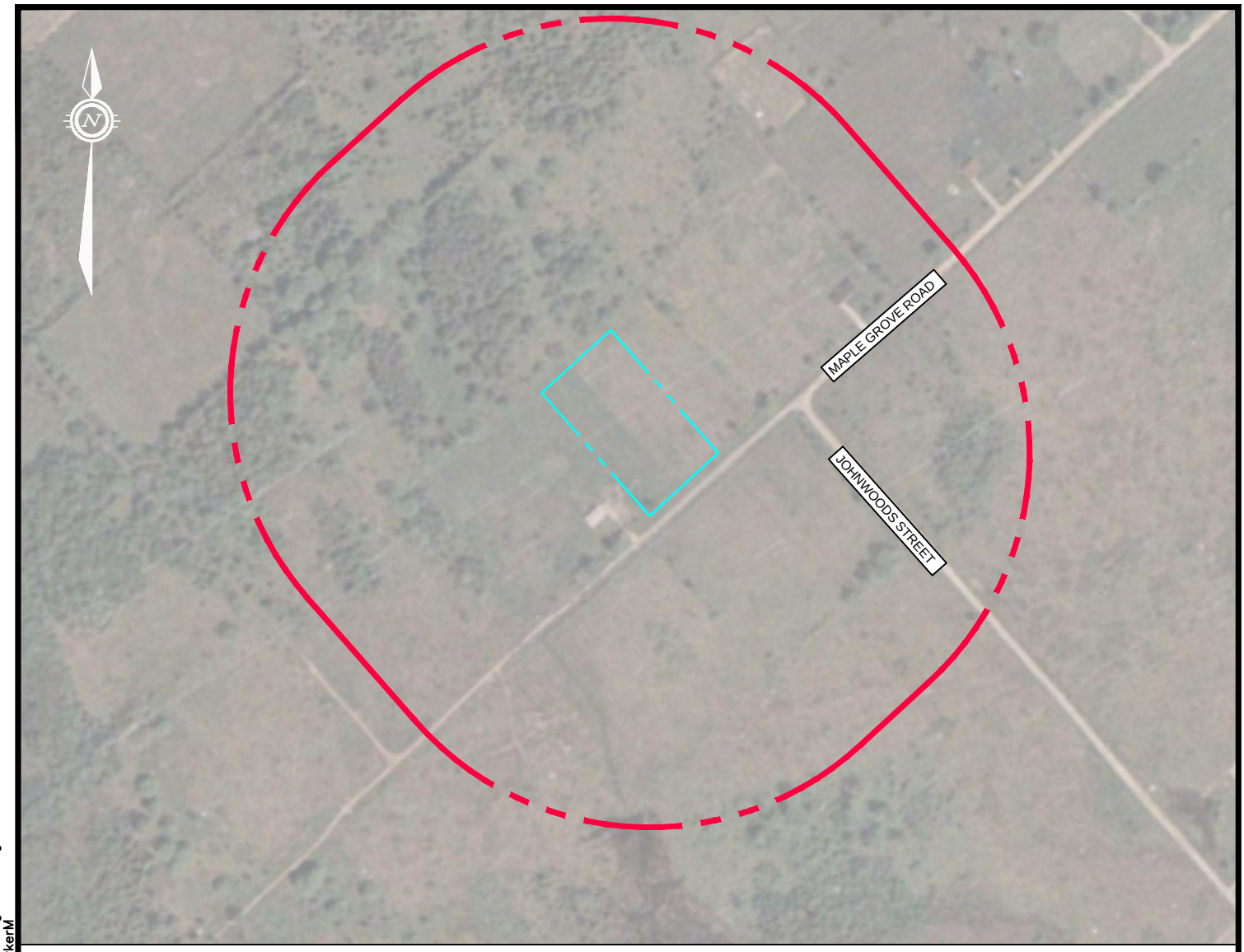
'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

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.

Appendix F: Aerial Photographs



LEGEND

PHASE ONE PROPERTY BOUNDARY

PHASE ONE STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

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: OCT 2020	CLIENT: LATITUDE HOMES INC.	project no.: OTT-00262363-A0
DESIGN: O.V. / CHECKED: P.S.		scale: 1:5,000
DRAWN BY: M.P.	TITLE: 1965 AERIAL PHOTOGRAPH 1927 MAPLE GROVE ROAD, STITTSVILLE, ON	FIG F-1

Filename: E:\OTT\OTT-00262363-A0\60 Execution\65 Drawings\1927 Maple Grove Road - Fig 1-3.dwg
Last Saved: Nov 2, 2020 12:46 PM Last Plotted: Nov 4, 2020 1:52 PM Plotted by: ParkerM

LEGEND

PHASE ONE PROPERTY BOUNDARY

PHASE ONE STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

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: OCT 2020	CLIENT: LATITUDE HOMES INC.	project no.: OTT-00262363-A0
DESIGN: O.V. / CHECKED: P.S.	TITLE: 1976 AERIAL PHOTOGRAPH	scale: 1:5,000
DRAWN BY: M.P.	1927 MAPLE GROVE ROAD, STITTSVILLE, ON	FIG F-2

Filename: E:\OTT\OTT-00262363-A0\60 Execution\65 Drawings\1927 Maple Grove Road - Fig 1-3.dwg
Last Saved: Nov 2, 2020 12:46 PM Last Plotted: Nov 4, 2020 1:51 PM Plotted by: ParkerM

LEGEND

PHASE ONE PROPERTY BOUNDARY

PHASE ONE STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

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: OCT 2020	CLIENT: LATITUDE HOMES INC.	project no. OTT-00262363-A0
DESIGN: O.V. / CHECKED: P.S.	TITLE: 1991 AERIAL PHOTOGRAPH	scale 1:5,000
DRAWN BY: M.P.	1927 MAPLE GROVE ROAD, STITTSVILLE, ON	FIG F-3

Filename: E:\OTT\OTT-00262363-A0\60 Execution\65 Drawings\1927 Maple Grove Road - Fig 1-3.dwg
Last Saved: Nov 2, 2020 12:46 PM Last Plotted: Nov 4, 2020 1:50 PM Plotted by: ParkerM

LEGEND

PHASE ONE PROPERTY BOUNDARY

PHASE ONE STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

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: OCT 2020	CLIENT: LATITUDE HOMES INC.	project no.: OTT-00262363-A0
DESIGN: O.V. / CHECKED: P.S.		scale: 1:5,000
DRAWN BY: M.P.	TITLE: 1999 AERIAL PHOTOGRAPH 1927 MAPLE GROVE ROAD, STITTSVILLE, ON	FIG F-4

Filename: E:\OTT\OTT-00262363-A0\60 Execution\65 Drawings\1927 Maple Grove Road – Fig 1–3.dwg
Last Saved: Nov 2, 2020 12:46 PM Last Plotted: Nov 4, 2020 1:49 PM Plotted by: ParkerM

LEGEND

PHASE ONE PROPERTY BOUNDARY

PHASE ONE STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

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: OCT 2020	CLIENT: LATITUDE HOMES INC.	project no.: OTT-00262363-A0
DESIGN: O.V. / CHECKED: P.S.		scale: 1:5,000
DRAWN BY: M.P.	TITLE: 2005 AERIAL PHOTOGRAPH 1927 MAPLE GROVE ROAD, STITTSVILLE, ON	FIG F-5

Filename: E:\OTT\OTT-00262363-A0\60 Execution\65 Drawings\1927 Maple Grove Road – Fig 1–3.dwg
Last Saved: Nov 2, 2020 12:46 PM Last Plotted: Nov 4, 2020 1:48 PM Plotted by: ParkerM

LEGEND

PHASE ONE PROPERTY BOUNDARY

PHASE ONE STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

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: OCT 2020	CLIENT: LATITUDE HOMES INC.	project no.: OTT-00262363-A0
DESIGN: O.V. / CHECKED: P.S.		scale: 1:5,000
DRAWN BY: M.P.	TITLE: 2009 AERIAL PHOTOGRAPH 1927 MAPLE GROVE ROAD, STITTSVILLE, ON	FIG F-6

Filename: E:\OTT\OTT-00262363-A0\60 Execution\65 Drawings\1927 Maple Grove Road – Fig 1–3.dwg
Last Saved: Nov 2, 2020 12:46 PM Last Plotted: Nov 4, 2020 1:47 PM Plotted by: ParkerM

LEGEND

PHASE ONE PROPERTY BOUNDARY

PHASE ONE STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

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: OCT 2020	CLIENT: LATITUDE HOMES INC.	project no.: OTT-00262363-A0
DESIGN: O.V. / CHECKED: P.S.		scale: 1:5,000
DRAWN BY: M.P.	TITLE: 2015 AERIAL PHOTOGRAPH 1927 MAPLE GROVE ROAD, STITTSVILLE, ON	FIG F-7

Filename: E:\OTT\OTT-00262363-A0\60 Execution\65 Drawings\1927 Maple Grove Road – Fig 1-3.dwg
Last Saved: Nov 2, 2020 12:46 PM Last Plotted: Nov 4, 2020 1:46 PM Plotted by: ParkerM

LEGEND

PHASE ONE PROPERTY BOUNDARY

PHASE ONE STUDY AREA (250m)

0 50m 100m 200m

HORIZONTAL 1:5,000

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: OCT 2020	CLIENT: LATITUDE HOMES INC.	project no.: OTT-00262363-A0
DESIGN: O.V. / CHECKED: P.S.		scale: 1:5,000
DRAWN BY: M.P.	TITLE: 2017 AERIAL PHOTOGRAPH 1927 MAPLE GROVE ROAD, STITTSVILLE, ON	FIG F-8

Filename: E:\OTT\OTT-00262363-A0\60 Execution\65 Drawings\1927 Maple Grove Road - Fig 1-3.dwg
Last Saved: Nov 2, 2020 12:46 PM Last Plotted: Nov 4, 2020 1:45 PM Plotted by: ParkerM

Appendix G: Site Photographs

Photograph No. 1

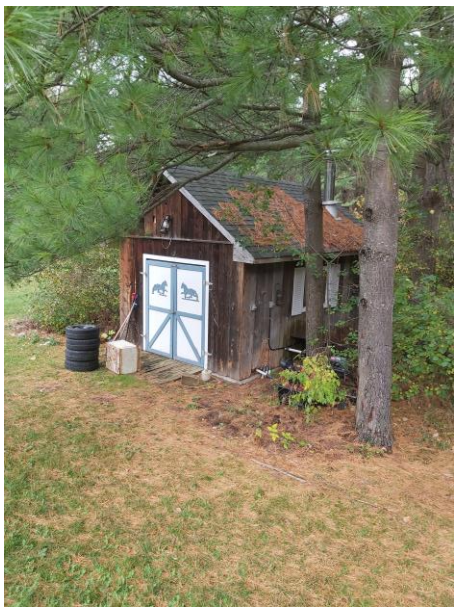
Front Face of Residential House with Water Well in Foreground, Looking North

Photograph No. 2

Two Propane Tank AST at the Front of the House, Looking Northeast

Photograph No. 3

Septic System located adjacent to the Swimming Pool, Looking Northwest



Photograph No. 4

Storage Shed, Looking Northwest

Photograph No. 5

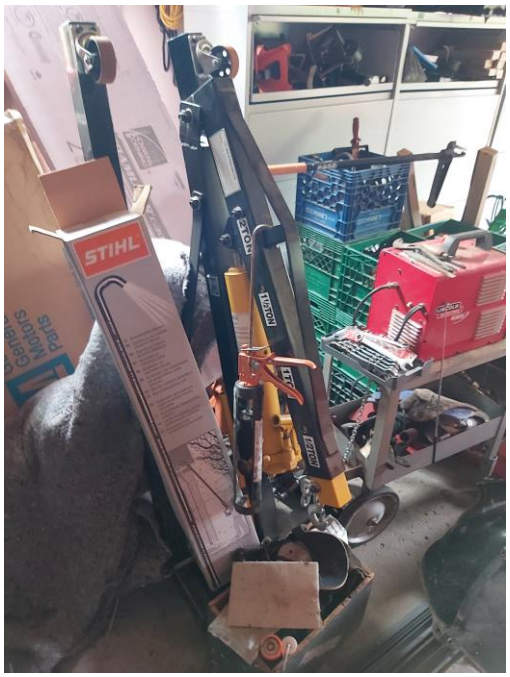
Water Damage Around Basement Window

Photograph No. 6

Sump Pump in the Basement

Photograph No. 7

Garage with Vintage Vehicle



Photograph No. 8

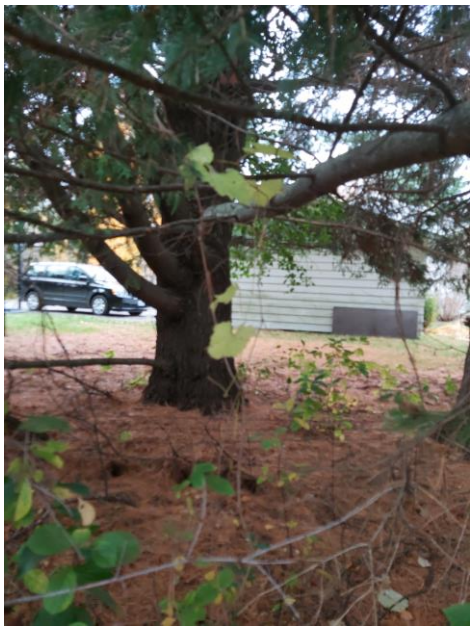
Hydraulic Jack in the Garage

Photograph No. 9

Undeveloped Land, Looking North

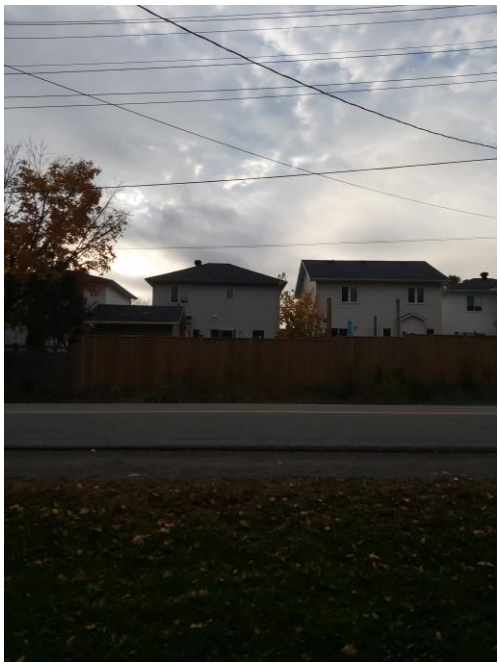
Photograph No. 10

Residential Dwelling, Looking East



Photograph No. 11

Residential Neighborhood, Looking West



Photograph No. 12

Maple Grove Road and Beyond Residential Neighborhoods, Looking South