

REPORT ON

PHASE I ENVIRONMENTAL SITE ASSESSMENT 1020 & 1070 MARCH ROAD OTTAWA, ONTARIO

Submitted to:

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Attention: Mr. D. Page

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EXECUTIVE SUMMARY

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Morey Associates Ltd. was retained by J.G. Rivard Ltd. to carry out a Phase I Environmental Site Assessment (Phase I ESA) for the properties known as 1020 March Road and 1070 March Road, located in Lot 13, Concession 4, in the Geographic Township of March, now in the City of Ottawa, Ontario (PIN 045270071, 045270074 and 045270075), hereinafter collectively referred to as the "site" or "Phase One Property" (see attached Figures 1 and 2).

The purpose of this Phase I ESA was to identify, if possible, through non-intrusive investigation, consisting of a review of current and historical readily available information and observations of site conditions during a site reconnaissance visit, the existence of any significant, actual or potential environmental liabilities, potentially contaminating activities (PCAs) and areas of potential environmental concern (APECs) associated with the Phase One Property. This Phase I ESA has been prepared in general accordance with our interpretation of Ontario Regulation 153/04 in view of the environmental setting for the site and in view that this present Phase I ESA is not in support of the submission of a Record of Site Condition (RSC).

The Phase I ESA was based on a site reconnaissance visit carried out on May 5, 2019 together with a review of readily available geological, topographical and historical information for the site.

The Phase I Study Area is located within an area of residential, agricultural, rural commercial and rural institutional development. The site for this assessment consists of about a 47.8 hectare irregular shaped parcel of land, with some 460 metres of frontage on the east side of March Road and some 207 metres of frontage on the west side of March Valley Road, in the City of Ottawa, Ontario. A portion of the site (1020 March Road) is divided by a Canadian National (CN) railway line. Previous single family dwellings (one dwelling at 1070 March Road and one dwelling at 1020 March Road) and several barn buildings at the site have been demolished/removed from the site.

Based on the information obtained for this Phase I ESA the most significant environmentally related issues associated with the site are limited to those outlined in Section 7.1 below.

Should the risk of the COPCs with regards to the PCAs identified for the Phase One Study Area (see Section 6.3) need to be reduced, a program of surface and subsurface sampling and related laboratory testing at the site could be carried out.

However, it is considered that there is no regulatory requirement for a Phase II ESA for the subject site at this time.

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1.0 INTRODUCTION

1.1 Phase One Property Information

Morey Associates Ltd. was retained by J.G. Rivard Ltd. to carry out a Phase I Environmental Site Assessment (Phase I ESA) for the properties known as 1020 March Road and 1070 March Road, located in Lot 13, Concession 4, in the Geographic Township of March, now in the City of Ottawa, Ontario (PIN 045270071, 045270074 and 045270075), hereinafter collectively referred to as the "site" or "Phase One Property" (see attached Figures 1 and 2).

For the purpose of this assessment March Road is considered to exist at the west side of the site (see attached Figure 1). The attached Figures 1 and 2 and aerial photographs show the relative location of the site with respect to the surrounding land and the existing roadway network.

The site for this assessment consists of about a 47.8 hectare irregular shaped parcel of land, with some 460 metres of frontage on the east side of March Road and some 207 metres of frontage on the west side of March Valley Road, in the City of Ottawa, Ontario (see Site Survey Plans in Appendix F). A portion of the site (1020 March Road) is divided by a Canadian National (CN) railway line. Based on review of available aerial photographs for the site, the railway line tracks/rails within the CN railway line at the site were removed in about 2015. Several out-buildings/sheds exist at the site (at 1070 March Road) associated with a previous single family dwelling and berry farm. Previous single family dwellings (one dwelling at 1070 March Road and one dwelling at 1020 March Road) and several barn buildings at the site have been demolished/removed from the site. A gravel surfaced driveway exists at the site (1070 March Road) and extends from March Road some 450 metres east to the previous dwelling at the site. Remnants of a former gravel surfaced driveway exist at the site (1020 March Road) extending from March Road to the previous dwelling at the site.

The legal description for the 1020 March Road parcel of the site, obtained from a previous Phase I ESA report prepared for that site, is:

 Part of Lot 13, Concession 4, formerly Township of March, as in CT189425, lying west of the CNR (PIN 04527-0074 (LT)); and Part of Lot 13, Concession 4, formerly Township of March, as in CR189425, lying east of the CNR, except Parts 1 and 2, Plan 5R-13961 (PIN 04527-0075 (LT)).

The legal description for the 1070 March Road parcel of the site, obtained from title search documents from a previous Phase I ESA report prepared for that site, is:

 Part of Lot 13, Concession 4, as described in Instrument No. NS129365, geographic Township of March, City of Ottawa (PIN 04527-0071).

2.0 SCOPE OF INVESTIGATION

The purpose of this Phase I ESA was to identify, if possible, through non-intrusive investigation, consisting of a review of current and historical readily available information and observations of site conditions during a site reconnaissance visit, the existence of any significant, actual or potential environmental liabilities, potentially contaminating activities (PCAs) and areas of potential environmental concern (APECs) associated with the Phase One Property.

Under the Environmental Protection Act filing a Record of Site Condition (RSC) is required if a change in land use of the site from less sensitive to more sensitive is intended. It is understood based on discussion with a representative of J.G. Rivard Ltd., Mr. D. Page, that no change in land use at the site from less sensitive to more sensitive is currently intended and therefore there is no mandatory requirement to file a RSC for the site. The Province of Ontario document titled "Guide For Completing Phase One Environmental Site Assessments Under Ontario Regulation 153/04", published September 26, 2016, specifies that if a Phase I ESA is not prepared in support of a RSC then the requirements of O.Reg 153/04 and Part XV.1 of the Environmental Protection Act do not apply.

This Phase I ESA has been prepared in general accordance with our interpretation of Ontario Regulation 153/04 in view of the environmental setting for the site and in view that this present Phase I ESA is not in support of the submission of a RSC.

The scope of the Phase I ESA is sufficient to identify existing and/or potential environmental liabilities which are obvious from visual examination of surface features and from readily available sources of information. This level of work is a method of risk reduction, not risk elimination. No

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building materials, soil, water, liquid, gas, or chemical product sampling and/or testing on or in the vicinity of the site were carried out as part of this assessment. This assessment included only a cursory overview of the present neighbouring land uses and does not constitute a complete assessment of the adjacent facilities.

3.0 RECORDS REVIEW

3.1 GENERAL

3.1.1 Phase One Study Area Determination

For the purpose of this Phase I ESA, the Phase I Study Area is defined as the site and the area within approximately 250 metres of the boundaries of the site. Based on a review of the historical and current information obtained for this Phase I ESA, on observations made during the site reconnaissance carried out for this Phase I ESA and in view that this Phase I ESA is not in support of the submission of a RSC, it is considered that the above defined Phase I Study Area is adequate in view of the objectives, scope of investigation and regulatory requirements of this Phase I ESA.

3.1.2 FIRST DEVELOPED USE DETERMINATION

The first development use of the site was determined based on a review of the historical information obtained for this Phase I ESA, which is discussed in the following sections of this report.

The below mentioned 1934 aerial photograph indicates the site (or a portion of the site) appears to be used for agricultural purposes and that there is evidence of a dwelling at the site. Based on the 1934 aerial photograph it is considered that the site may have been first developed prior to 1934.

3.1.3 FIRE INSURANCE PLANS

Fire insurance plans research results provided by Enviroscan, as part of the below mentioned Environmental Risk Information Services (ERIS) database report, indicates no information was found for the site (see results of Enviroscan report in Appendix A).

3.1.4 CHAIN OF TITLE

A review of chain of title search documents from previous Phase I ESA reports prepared for the site indicate that site has been owned by individuals and that as of June 2000 Susan Davis and Eldon Davis owned the 1020 March Road parcel and that as of November 2010 Jack Dekok and Mary Dekok owned the 1070 March Road parcel. The above mentioned chain of title search documents are attached as Appendix B.

It is understood based on a discussion with Mr. D. Page that the 1070 March Road parcel was purchased from the Dekok's by J.G. Rivard Ltd. and that the current owner of the 1070 March Road parcel is J.G. Rivard Ltd.

It is understood based on a discussion with Mr. D. Page that the 1020 March Road parcel was purchased from the Davis' by a numbered company (8409706 Canada Inc.) and that the current owner of the 1020 March Road parcel is 8409706 Canada Inc. It is further understood that J.G. Rivard Ltd. is the owner of the numbered company 8409706 Canada Inc.

3.1.5 ENVIRONMENTAL REPORTS

A previous Phase I ESA report titled "Phase I Environmental Site Assessment, Part of Lot 13, Concession 4, Formerly Township of March, Kanata, Ontario", authored by Morey Houle Chevrier Engineering Ltd., dated June 21, 2000, prepared for the 1020 March Road portion of the subject site, was provided to us by J.G. Rivard Ltd.

The executive summary of the above mentioned Phase I ESA report states "Additional investigation of the site is not considered necessary at this time. However, the risk of possible contamination due to previous activities on the site and along the railway right of way could be further assessed by sampling and testing of the subsurface materials".

A previous Phase I ESA report titled "Phase I Environmental Site Assessment, 1070 March Road, West Carleton-March Ward, City of Ottawa, Ontario", authored by Levac Robichaud Leclerc Consulting Engineers, dated November 18, 2010, prepared for the 1070 March Road portion of the subject site, was provided to us by J.G. Rivard Ltd.

The executive summary of the above mentioned Phase I ESA report states "Should the risk of unknown contamination with regards to pesticide, herbicide, hydrocarbon, irrigation pH acid and imported fill at the site need to be reduced, a program of surface and subsurface sampling and related laboratory testing could be carried out".

A Designated Substances and Hazardous Materials Survey (DSS) report was prepared by Morey Associates Ltd. in March 2018 for the previous dwelling located at 1070 March Road, prior to the demolition/removal of that previous dwelling. The results of the above mentioned report indicated that asbestos was detected in drywall joint compound and vinyl flooring, that lead was identified in the wall paint, that arsenic could be present in the preserved treated wood observed in the basement, that mercury and polychlorinated biphenyls (PCB's) may be present in the fluorescent light tubes observed in the dwelling, that silica is suspected to be present in any concrete and mortar material at the dwelling, that ozone depleting substances (ODS) were observed at the site, that rodent droppings were observed within the dwelling and that mould was observed within the basement and 2nd floor of the dwelling.

It is understood based on discussion with Mr. D. Page that the previous dwelling located at 1070 March Road was demolished and removed from the site in 2018. Based on the observations made by a member of our engineering staff during the below mentioned site reconnaissance carried out for this subject Phase I ESA report the above mentioned previous dwelling located at 1070 March Road has been demolished and removed from the site.

A previous geotechnical investigation report titled "Geotechnical Investigation, Proposed Residential Development, Dekok Lands - March Road - Ottawa", authored by Paterson Group Inc. Consulting Engineers, dated February 7, 2011, prepared for the 1070 March Road portion of the subject site, was provided to us by J.G. Rivard Ltd.

Two previous geotechnical investigation reports were prepared by Morey Associates Ltd. in February 2013 and April 2013 for the 1020 March Road portion of the subject site.

The above mentioned previous geotechnical investigation reports indicate that a combined 42 test holes (test pits/augerholes) were put down across the subject site and that no fill materials were observed within those test holes.

3.2 ENVIRONMENTAL SOURCE INFORMATION

In order to assess some of the historical conditions at the site, a preliminary review of information from the following sources was conducted:

- Ministry of Environment, Conservation and Parks (MOE) website
- Province of Ontario website
- City of Ottawa website
- Environmental Risk Information Service Ltd. (ERIS)

3.2.1 MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS (MOE) WEBSITE

Information from the Ministry of the Environment, Conservation and Parks (MOE) Access Environment on-line, map-based search website was reviewed for Environmental Compliance Approvals (ECA), Renewable Energy Approvals (REA), Environmental Activity and Sector Registry (EASR) and Certificates of Approval (CofAs) for the site and within 250 metres of the site. No information regarding any ECA, REA, EASR and CofAs was indicated on the MOE website for the site or within 250 metres of the site.

3.2.2 Province of Ontario Website

Information from the Province of Ontario website was reviewed for the presence of any former or active landfills at or within 250 metres of the site.

No former or active landfills are indicated to exist at or within 250 metres of the site.

3.2.3 CITY OF OTTAWA WEBSITE

Information from the City of Ottawa website was reviewed regarding the zoning for the site and properties within about 250 metres of the site.

Based on the City of Ottawa website the zoning for the site is Rural Countryside (RU). The City of Ottawa website further indicates the zoning for the properties out beyond the site within about 250

metres of the site consists of RU, Rural Commercial (RC), Rural Institutional (RI), Rural Residential (RR) and Environmental Protection (EP).

3.2.4 Environmental Risk Information Service Ltd. (ERIS)

Environmental Risk Information Service Ltd. (ERIS) was contacted to carry out current and historical environmental database information research in order to identify the existence of any significant actual or potential environmental liabilities associated with the subject property and/or associated with the properties located within a 250 metre radius around the site. The databases researched by ERIS include federal, provincial (including MOECC) and private sector databases. The ERIS database report is provided as Appendix C following the text of this report.

The ERIS information for the site indicates database information search results for one of the sixtyseven databases searched, Water Well Information System (WWIS).

The ERIS information for properties located within about a 250 metre radius around the site indicates database information search results for five of the sixty-seven databases searched, Environmental Compliance Approval (ECA), Eris Historical Searches (EHS), Borehole (BORE), Scott's Manufacturing Directory (SCT) and WWIS.

Based on a review of the ERIS information regarding the above mentioned search results it is considered that the above mentioned search results do not indicate any major environmental concern for the Phase One Property.

3.3 Physical Setting Sources

3.3.1 AERIAL PHOTOGRAPHS

A review of air photographs of the site for the years 1934, 1959, 1965, 1976, 1991, 2007 and 2018 was carried out as part of this Phase I ESA (see Appendix D). The 1934 air photograph was obtained from the above mentioned previous Phase I ESA report authored by Morey Houle Chevrier Engineering Ltd., the 1959 air photograph was obtained from the above mentioned previous Phase I ESA report authored by Levac Robichaud Leclerc Consulting Engineers, and the 1965 to ~2018 air photographs were obtained from the City of Ottawa geoOttawa mapping website.

All of the air photographs indicate that the site is developed and that the site appears to be in use as farmland. The 2007 air photograph appears to indicate that a previous dwelling and barn buildings located at the 1020 March Road portion of the site had been removed, and also indicates a residential subdivision development to the north of the site and evidence of construction of a residential development to the south of the site. The 2018 air photograph appears to indicate that the above mentioned CN railway line rails/tracks have been removed, and also indicates a relatively dense residential subdivision development to the south of the site.

3.3.2 TOPOGRAPHY, HYDROLOGY, GEOLOGY

The surficial geology map for the site area indicates that the site is underlain by silty clay as well as sand with some silt. The bedrock geology map for the site area indicates that the bedrock underlying the west portion of the site consists of interbedded sandstone and sandy dolomite of the March formation and that the bedrock underlying the east portion of the site consists of dolomite and limestone of the Oxford formation.

Based on a review of the topographical map for the site area, up to about a 9 metre high ridge aligned north to south crosses the site some 450 metres east of March Road. The ground surface west of the ridge is relatively flat. The ground surface on the east side of the ridge is relatively flat with a gentle slope towards the east towards March Valley Road.

The upper groundwater at the site is expected to follow the topography at the site. Based on a review of the topographical map for the site, it is expected that the upper groundwater flow at the site and the surrounding area is to the east, towards Shirley's Bay and the Ottawa River which exist some 1 and 3 kilometres east/southeast of the site, respectively.

3.3.3 FILL MATERIALS

In general, fill material is considered a common construction material for all developed properties. Fill material is commonly used and can be expected, in general, for all developed properties as backfill around buildings, under slabs, landscaping/grading, etc. Earth borrow transferred from one location to another on the same property at the time of the first developed use of a property is not considered to be a major environmental concern. Imported fill from unknown sources, however, could potentially contain contaminates.

Due to the above mentioned previous dwellings/barns and gravel surfaced driveways at the site, and the below mentioned grassed earthen mound observed at the site in close proximity to the previous barn buildings at 1020 March Road (see section 5.0 of this report), it is considered likely that imported fill materials of unknown quality exist at the site.

Imported fill materials of unknown quality at the site are considered a PCA (PCA#30 as per Schedule D, Table 2 of O.Reg 153/04) on the Phase One Property and represent an APEC for the Phase One Property.

In view of the limited construction that is indicated to have occurred at the site and the typical construction practice at the time of that construction to use on site material for backfilling and grading, together with the limited site grade raises relative to the adjacent lands and the fact that no fill materials was encountered at the above mentioned 42 test holes put down at the site, it is considered unlikely that significant quantities of imported fill exist at the site.

3.3.4 WATER BODIES AND AREAS OF NATURAL SIGNIFICANCE

A roadside ditch exists along March Road which borders the west side of the site and a roadside ditch exists along March Valley Road which borders the east side of the site. A drainage ditch exists along a portion of the south boundary of the site within about the southwest corner of the site. Drainage ditches exist within/between some of the agricultural fields at the site. A relatively small pond exists some 200 metres east of March Road within the 1070 March Road portion of the site.

Based on information provided on the Mississippi Valley Conservation Authority website (MVCA Regulation Public Mapping Browser) a relatively small portion of the site, within about the southwest corner of the site, is indicated to be within a floodplain and floodplain spillway associated with the above mentioned drainage ditch and March Road roadside ditch. The MVCA Regulation Public Mapping Browser further indicates that a non-evaluated wetland exists west of March Road, some 100 metres west of the site and that a non-evaluated wetland and Shirley's Brook (a tributary to Shirley's Bay) exists adjacent to the east side of March Valley Road which borders the east side of the site.

Shirley's Bay and the Ottawa River exist some 1 and 3 kilometres east/southeast of the site, respectively.

There are no areas of natural significance indicated at the site based on the available information reviewed for this Phase I ESA.

The above mentioned non-evaluated wetlands and the area zoned Environmental Protection (EP) as indicated on the City of Ottawa website are within the Phase One Study Area. Wetlands and areas zoned EP may be considered areas of natural significance.

3.3.5 WELL RECORDS

The above mentioned ERIS database report provides search results of the Well Water Information System (WWIS) database. The ERIS database report indicates 14 water supply wells or water monitoring wells exist within the Phase One Study Area, see Appendix C.

The stratigraphy information provided in the ERIS database report for the above mentioned 14 water supply wells or monitoring wells indicates that the native soil deposits in the area surrounding the site, in general, consists of sand and clay.

3.4 SITE OPERATING RECORDS (FOR ENHANCED INVESTIGATION PROPERTY)

Based on the current and past use of the site the Phase One Property is not considered to be an enhanced investigation property.

4.0 INTERVIEW(S)

A telephone interview was carried out with Mr. D. Page, representative of J.G. Rivard Ltd., on April 30, 2019. The following information pertinent to this present Phase I ESA was obtained:

- J.G. Rivard Ltd. is the current owner of the site (both 1020 March Road and 1070 March Road).
- The previous dwelling at 1070 March Road was demolished and removed from the site following the above mentioned DSS report.
- Previous barn buildings located in close proximity to the previous dwelling at 1070 March Road were demolished and removed from the site between February 2018 and April 2019.

A residential development is currently being planned for the site.

A telephone interview was carried out with Mr. J. Dekok, former owner and operator of the berry farm located at 1070 March Road, on April 31, 2019. The following information pertinent to this present Phase I ESA was obtained:

- About a 250 gallon above ground tank for storage of a sulphuric acid and water solution was
 used at the site in association with the former berry farm. The solution stored in the above
 ground tank consisted of 1 quart of sulphuric acid to 250 gallons of water, for a sulphuric
 acid concentration of about 10 ppm.
- The water based solution in the storage tank was mixed with water obtained from a pond at the site and then used for watering the berry fields. The sulphuric acid concentration in the water based solution, once the water was spread on the fields, was about 4 ppm.
- The last spreading use of the water based solution at the site was some 5 years ago.

As part of the above mentioned previous Phase I ESA report authored by MHCEL an interview was carried out with the owner of the previous dwelling located at 1020 March Road on June 16, 2000. Based on a limited review of section 3.7 that Phase I ESA report the following information pertinent to this present Phase I ESA was obtained:

- The site (1020 March Road) was previously used as a dairy farm.
- A portion of the previous dwelling was about 150 years old (as of year 2000).
- The previous dwelling was heated with a wood stove. No UFFI had been installed in the dwelling.
- No liquid waste was disposed of on site.
- No above ground or below ground fuel storage tanks previously existed or were present on the site.
- Some solid refuse was disposed on in the forested area between the ridge and the CN railway line.
- Some automobiles were stored at the site near the previous dwelling.
- No sewage septic system servicing the previous dwelling existed at the site.
- Grey water from the previous dwellings kitchen was understood to be disposed on ground surface next to the previous dwelling.

5.0 SITE RECONNAISSANCE

5.1 GENERAL REQUIREMENTS

On May 5, 2019 walk-through site reconnaissance (site visit) was conducted at the Phase I Property by Mr. D. Morey, P.Eng., member of Morey Associates Ltd. engineering staff. The total duration of the site visit was approximately 1.5 hours. At the time of site visit the weather conditions were sunny and the temperature was approximately 18°C.

The site visit included a tour of the site. Cursory observations of neighbouring properties were made from views from the site and from publicly accessible areas. Photographs of some of the site features noted during the site visit are attached in Appendix E.

5.2 Specific Observations at Phase One Property

The specific observations made during the above mentioned walk-through site reconnaissance are presented herein.

SITE DETAILS

The Phase I Study Area is located within an area of residential, agricultural, rural commercial and rural institutional development. The Phase One Property is bordered on the north by an existing rural residential subdivision development, with two one-storey commercial shopping plazas, rural commercial development and agricultural fields beyond, on the east by March Valley Road with agricultural fields, Shirley's Bay and the Ottawa River beyond, on the south by agricultural fields with dense residential development beyond and on the west by March Road with residential development and agricultural fields beyond. The St.Isidore Catholic School building exists northwest of the site (within the Phase I Study Area) some 120 metres.

No service stations exist within 250 metres of the site. A former service station existed some 450 metres north of the site at 1156 March Road. That former service station was observed to have been removed/demolished.

The ground surface across the site is relatively flat with the exception of a ridge aligned north to south crossing the site some 450 metres east of March Road. The portion of the site on the west side of the ridge is at a higher elevation than the portion on the east side of the ridge. The east most portion of the site (portion of 1020 March Road on east side of the CN railway line) is mostly wooded with the exception of a cleared, grassed area.

A gravel surfaced driveway exists providing access from March Road to the previous dwelling at 1070 March Road and a gravel surfaced parking area associated with the former berry farm exists near the northwest corner of the site. A concrete slab, some 6 metres by 14 metres exists near the northwest corner of the site and is considered likely to have supported the previous berry farm sales/vendor building at 1070 March Road. Remnants of a gravel surfaced driveway exists providing access from March Road to the previous dwelling at 1020 March Road. A pond was observed at the site some 200 metres east of March Road, within the agricultural fields of the former berry farm at 1070 March Road. What appeared likely to be black hosing/piping and pump equipment was observed near the pond. Black hosing/piping was observed at the ground surface within the agricultural fields of the former berry farm.

No dwellings exist at the site. No barn buildings exist at the site.

A relatively small wood framed gazebo like structure, the steel framing of what appears to be a previous greenhouse building, a wood framed storage shed with plastic vapor barrier roof cover, two small wood framed sheds and a portable construction "site trailer" were observed at the site in close proximity to the previous dwelling at 1070 March Road. Two tractors, two wood/steel framed trailers, a camping trailer, a tent camping trailer and a portion of the concrete foundation likely supporting a previous barn building were also observed at the site in close proximity to the previous dwelling at 1070 March Road.

The following is a list of miscellaneous items observed on the ground within close proximity to the previous dwelling and/or berry farm sales/vendor building and/or within the above mentioned storage shed/sheds at the 1070 March Road portion of the site:

- One aluminum boat (relatively small)
- Wood, plastic, metal and glass debris
- Swing/swing sets

- Empty plastic storage containers (relatively small)
- Metal fan
- Wooden bench/table
- Plastic sheets/vapour barrier
- 2 propane tanks (relatively small portable)
- Fence wires/fence posts
- Batt insulation
- Electrical wires
- 4 car tires
- Steel dolly
- Pieces/planks of wood, wooden shelving, wooden fencing, wooden picnic table, large timbers (likely from previous barn building)
- Plastic children's toys, plastic lawn chairs and plastic signs
- Tin roofing/sheeting
- A domestic dryer
- A television
- A container of screws and nails
- Old/abandoned farm implements
- A window mounted air conditioning unit (relatively small)
- Pile of crushed stone

A portion of the concrete foundations likely supporting previous barn buildings, relatively large timbers, and a grassed earthen mound of what is considered likely to be fill material (potentially fill from the subject site due to the expected first development at the site) in close proximity to the previous dwelling at 1020 March Road was observed at the site.

The following is a list of miscellaneous items observed within close proximity to the previous dwelling at the 1020 March Road portion of the site:

- Wood fence posts/rails
- Several pieces of plastic (garbage)
- Pieces of cardboard (garbage)
- Clothes line wire and metal clothes line apparatus

A steel culvert (on ground surface within the agricultural fields)

ELECTRICITY

No serviced buildings exist at the site. Utility poles with wires extending from March Road to the previous dwelling at 1070 March Road were observed at the site. A transformer was observed on one of the utility poles in close proximity to the previous dwelling at 1070 March Road.

HEATING AND COOLING

No serviced buildings exist at the site.

SEWAGE DISPOSAL

No serviced buildings exist at the site. It is considered likely that a septic system servicing the previous dwelling at 1070 March Road exists at the site in close proximity to that previous dwelling. No storm or sanitary sewers exist at the site.

WATER SUPPLY

No serviced buildings exist at the site. Four wells are known to have existed at the site (three drilled wells at 1070 March Road and one dug well at 1020 March Road) based on the above mentioned previous Phase I ESA reports prepared for the site.

At the time of the site visit a manual water pump mounted on a concrete slab was observed and was functioning (see Appendix E).

At the time of the site visit four steel monitoring well casings complete with PVC piezometer's were observed at the site, two were located at about the bottom of the above mentioned ridge adjacent to the north site boundary (on the 1070 March Road portion of the site) and two were located within the agricultural fields east of the previous dwelling at 1020 March Road some 100 metres. A limited search using the MOE online map based search engine for the general site area and a review of the WWIS and BORE database search results from the above mentioned ERIS report did not appear to reveal well records or well information for the above mentioned four monitoring wells.

Any wells at the site that are not in use should be suitably decommissioned in accordance with O.Reg 903.

SUMPS, PITS AND FLOOR DRAINS

No sumps, pits or floor drains were observed at the site.

GROUND SURFACE STAINING OR SIGNIFICANT DISTRESSED VEGETATION

No ground surface staining or significant distressed vegetation was observed at the time of the site visit.

STORAGE

No storage of hazardous materials was observed at the site at the time of the site visit.

STORAGE TANKS

No evidence of below ground storage tanks was observed at the site at the time of the site visit.

One empty above ground white plastic 200 to 250 gallon storage tank was observed at the time of the site visit within the agricultural fields for the previous berry farm. It is considered likely that this is the above mentioned sulphuric acid and water based solution storage tank (see section 4.0 of this report).

Based on the above mentioned previous Phase I ESA report authored by Levac Robichaud Leclerc Consulting Engineers, the following information regarding storage tanks is provided:

- Five above ground storage tanks existed at the site.
- Three of the tanks were for fuel storage and were located near the previous dwelling at 1070
 March Road. One of the tanks was located near a previous greenhouse building at 1070
 March Road.

 The remaining one tank was used for storage of a water based sulphuric acid solution (see section 4.0 of this report) and was located near the south side of the site about halfway between the west property line and the previous dwelling at 1070 March Road.

Gasoline and associated products (fuel) storage in fixed tanks at the site are considered a PCA (PCA#28 as per Schedule D, Table 2 of O.Reg 153/04) on the Phase One Property and represent an APEC for the Phase One Property.

POLYCHLORINATED BIPHENYLS (PCB)

PCB's could exist within the hydro transformer located on the existing utility pole in close proximity to the previous dwelling at 1070 March Road.

SUSPECT ASBESTOS CONTAINING MATERIALS (ACM)

The former dwellings at 1070 and 1020 March Road have been demolished/removed. No evidence of any ACM's were observed at the site at the time of the site visit.

OZONE-DEPLETING SUBSTANCES (ODS)

ODS could exist within the above mentioned window mounted air conditioning unit observed at the site.

LEAD

The former dwellings at 1070 and 1020 March Road have been demolished/removed. No evidence of lead was observed at the site at the time of the site visit.

UREA FORMALDEHYDE FOAM INSULATION (UFFI)

The former dwellings at 1070 and 1020 March Road have been demolished/removed. No evidence of UFFI was observed at the site at the time of the site visit.

Mould

The former dwellings at 1070 and 1020 March Road have been demolished/removed. No evidence of mould was observed at the site at the time of the site visit.

SOLID WASTE DISPOSAL PRACTICES

No disposal of solid waste was observed at the site.

GENERAL STORAGE AND DEBRIS (HOUSEKEEPING)

At the time of the site visit, housekeeping at the site is considered to be satisfactory to poor due to the debris material leftover from the recent demolition of a previous barn building.

NOISE, DUST AND VIBRATIONS

There is potential for vehicular noise, dust and vibrations to exist from the use of March Road and March Valley Road which borders the west and east side of the site, respectively.

CURRENT OR FORMER RAILWAY LINES OR SPURS

No railway lines or spurs were observed at the site (on the Phase One Property).

Evidence of the former CN railway line tracks, in the form of a berm within the railway line right-of-way, was observed at the time of the site visit. The 1020 March Road portion of the site is divided by the former railway line.

Rail yards, tracks and spurs are considered a PCA (PCA#46 as per Schedule D, Table 2 of O.Reg 153/04) and represent a former PCA within the Phase One Study Area, and represent an APEC for the Phase One Property.

POTENTIALLY CONTAMINATING ACTIVITY (PCA)

Apart from the above mentioned fill material and above ground storage tanks, no other PCAs were identified at the site during the site reconnaissance.

5.3 SURROUNDING PROPERTIES WITHIN PHASE ONE STUDY AREA

The Phase I Study Area is located within an area of residential, agricultural, rural commercial and rural institutional development. The Phase One Property is bordered on the north by an existing residential subdivision development with two one-storey commercial shopping plazas, rural commercial development and agricultural fields beyond, on the east by March Valley Road with agricultural fields, Shirley's Bay and the Ottawa River beyond, on the south by agricultural fields with dense residential development beyond and on the west by March Road with residential development and agricultural fields beyond. The St.Isidore Catholic School building exists northwest of the site (within the Phase I Study Area) some 120 metres.

The above surrounding property uses are generally not associated with major environmental concern.

5.4 ENHANCED INVESTIGATION PROPERTY

Based on the current and past use of the site the Phase One Property is not considered to be an enhanced investigation property.

5.5 WRITTEN DESCRIPTION OF INVESTIGATION

The Phase I Study Area is located within an area of residential, agricultural, rural commercial and rural institutional development. The Phase One Property is bordered on the north by an existing rural residential subdivision development, with two one-storey commercial shopping plazas, rural commercial development and agricultural fields beyond, on the east by March Valley Road with agricultural fields, Shirley's Bay and the Ottawa River beyond, on the south by agricultural fields with dense residential development beyond and on the west by March Road with residential development and agricultural fields beyond. The St.Isidore Catholic School building exists northwest of the site (within the Phase I Study Area) some 120 metres.

Previous single family dwellings (one dwelling at 1070 March Road and one dwelling at 1020 March Road) and several barn buildings at the site have been demolished/removed from the site. A gravel surfaced driveway exists at the site (1070 March Road) and extends from March Road some 450 metres east to the previous dwelling at the site. Remnants of a former gravel surfaced driveway exist at the site (1020 March Road) extending from March Road to the previous dwelling at the site.

No dwellings exist at the site. No barn buildings exist at the site.

The ground surface across the site is relatively flat with the exception of a ridge aligned north to south crossing the site some 450 metres east of March Road. The portion of the site on the west side of the ridge is at a higher elevation than the portion on the east side of the ridge. The east most portion of the site (portion of 1020 March Road on east side of the CN railway line) is mostly wooded with the exception of a cleared, grassed area.

The Phase I ESA presented herein is based on information obtained from a limited records review, interview(s) and a site reconnaissance, the details of which are provided in Sections 3.0, 4.0 and 5.0 of this report, respectively.

Based on the information obtained for this Phase I ESA, and in accordance with O.Reg 153/04, Part VI, Table 2, two PCAs at the Phase One Property and one PCA within the Phase One Study Area have been identified. Based on the above PCAs, several APECs have been identified at the Phase One Property.

6.0 REVIEW AND EVALUATION OF INVESTIGATION

6.1 CURRENT AND PAST USES

The following table summarizes the property uses of the site over time based on the information obtained for this Phase I ESA:

Table 1: Current and Past Uses

Year Owner(s)		Property Use	
Prior to 1824	Crown	Likely vacant	
1824 to 1934	Various Individuals	Likely partially vacant, and likely partially in use for agriculture	
1934 to ~2018	Various Individuals and numbered company	Building(s) at site, in use for agriculture (dairy farm, crops and berry farm)	
~2018 to present	J.G. Rivard Ltd.	Buildings removed from site, in use for agriculture (crops)	

6.2 POTENTIALLY CONTAMINATING ACTIVITY (PCA)

Based on the information obtained as part of this Phase I ESA the following PCAs were identified at the Phase One Property.

PCA 1 – PCA#30 as per Schedule D, Table of O.Reg 153/04:

 The likely importation of fill of unknown quality associated with the grassed earthen mound at the site and the likely use of imported fill for the development of the previous buildings and gravel surface areas at the site.

PCA 2 – PCA#28 as per Schedule D, Table of O.Reg 153/04:

• The storage of fuel within the former above ground storage tanks at the site.

Based on the information obtained as part of this Phase I ESA the following PCA has been identified within the Phase One Study Area (outside of the site boundaries).

PCA 3 – PCA#46 as per Schedule D, Table of O.Reg 153/04:

• The former railway tracks of the CN railway that divides a portion of the site.

6.3 AREA(S) OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)

Based on the above mentioned PCAs the following APECs, shown in the table below, have been identified at the Phase One Property.

Table 2: Areas of Potential Environmental Concern (APECs)

Table 2: Areas of Potential Environmental Concern (APECs)								
APEC	Location of APEC on Site (see Figure 2)	PCA	Location of PCA (on site or off site)	COPC	Media Potentially Impacted (groundwater, soil and/or sediment)			
APEC 1 - earthen mound and likely fill materials used for development of previous buildings and gravel surfaced areas at the site	Earthen Mound - near previous barn buildings at 1020 March Rd. Likely fill materials used for site development - near previous buildings and gravel surfaced areas	PCA#30 as per Table 2 of O.Reg 153/04: Importation of Fill Material of Unkown Quality	On site	Metals, Petroleum hydrocarbons F1 to F4 (PHCs), benzene, toluene, ethylbenzene, xylenes (BTEX), Polycyclic aromatic hydrocarbons (PAHs)	Soil and groundwater			
APEC 2 - former fuel storage tanks	Former storage tank locations near previous dwelling at 1070 March Rd.	PCA#28 as per Table 2 of O.Reg 153/04: Gasoline and Associated Products [fuel] Storage in Fixed Tanks	On site	Petroleum hydrocarbons F1 to F4 (PHCs), benzene, toluene, ethylbenzene, xylenes (BTEX)	Soil and groundwater			
APEC 3 - former railway tracks	Portion of site adjacent to CN railway line	PCA#46 as per Table 2 of O.Reg 153/04: Rail Yards, Tracks and Spurs	Off site	Metals, Petroleum hydrocarbons F1 to F4 (PHCs), benzene, toluene, ethylbenzene, xylenes (BTEX), Polycyclic aromatic hydrocarbons (PAHs)	Soil and groundwater			

6.4 Phase One Conceptual Site Model

The Phase One Conceptual Site Model (CSM) is presented on the attached Figure 2 and shows the following information (if relevant to this Phase I ESA):

- Existing/previous dwellings and barn buildings at site (if identified)
- Water bodies located in whole or in part on the Phase One Study Area (if identified)
- Areas of natural significance located in whole or in part on the Phase One Study Area (if identified)
- Roads (including names) within the Phase One Study Area

- Areas where a PCA has been identified in the Phase One Study Area, including locations of any storage tanks (if identified)
- APEC(s) (if identified)
- Drinking water wells on the Phase One Property (if identified)

The following describes the CSM based on the information obtained and reviewed for this Phase I ESA:

The site for this assessment consists of about a 47.8 hectare irregular shaped parcel of land, with some 460 metres of frontage on the east side of March Road and some 207 metres of frontage on the west side of March Valley Road, in the City of Ottawa, Ontario (see Site Survey Plans in Appendix F). A portion of the site (1020 March Road) is divided by a Canadian National (CN) railway line. Based on review of available aerial photographs for the site, the railway line tracks/rails within the CN railway line at the site were removed in about 2015. Several out-buildings/sheds exist at the site (at 1070 March Road) associated with a previous single family dwelling and berry farm. Previous single family dwellings (one dwelling at 1070 March Road and one dwelling at 1020 March Road) and several barn buildings at the site have been demolished/removed from the site.

Based on the 1934 aerial photograph it is considered that the site may have been first developed prior to 1934.

The ground surface across the site is relatively flat with the exception of a ridge aligned north to south crossing the site some 450 metres east of March Road. The portion of the site on the west side of the ridge is at a higher elevation than the portion on the east side of the ridge.

Four wells are known to have existed at the site (three drilled wells at 1070 March Road and one dug well at 1020 March Road) based on the above mentioned previous Phase I ESA reports prepared for the site. At the time of the site visit a manual water pump mounted on a concrete slab was observed and was functioning.

The Phase I Study Area is located within an area of residential, agricultural, rural commercial and rural institutional development. The Phase One Property is bordered on the north by an existing residential subdivision development with two one-storey commercial shopping plazas, rural

commercial development and agricultural fields beyond, on the east by March Valley Road with agricultural fields, Shirley's Bay and the Ottawa River beyond, on the south by agricultural fields with dense residential development beyond and on the west by March Road with residential development and agricultural fields beyond. The St.Isidore Catholic School building exists northwest of the site (within the Phase I Study Area) some 120 metres.

A roadside ditch exists along March Road which borders the west side of the site and a roadside ditch exists along March Valley Road which borders the east side of the site. A drainage ditch exists along a portion of the south boundary of the site within about the southwest corner of the site. Drainage ditches exist within/between some of the agricultural fields at the site. A relatively small pond exists some 200 metres east of March Road within the 1070 March Road portion of the site.

There are no areas of natural significance indicated at the site based on the available information reviewed for this Phase I ESA.

The surficial geology map for the site area indicates that the site is underlain by silty clay as well as sand with some silt. The bedrock geology map for the site area indicates that the bedrock underlying the west portion of the site consists of interbedded sandstone and sandy dolomite of the March formation and that the bedrock underlying the east portion of the site consists of dolomite and limestone of the Oxford formation.

The stratigraphy information provided in the ERIS database report for the above mentioned 14 water supply wells or monitoring wells indicates that the native soil deposits in the area surrounding the site, in general, consists of sand and clay.

The upper groundwater at the site is expected to follow the topography at the site. Based on a review of the topographical map for the site, it is expected that the upper groundwater flow at the site and the surrounding area is to the east, towards Shirley's Bay and the Ottawa River which exist some 1 and 3 kilometres east/southeast of the site, respectively.

Due to the relatively low permeability of the clay overburden material indicated to exist at the site contaminant migration could be expected to be relatively slow at the site.

Based on the information obtained as part of this Phase I ESA the PCAs, APECs/COPCs indicated in the above report Sections 6.2 and 6.3, respectively, have been identified.

6.4.1 Uncertainty and Absence of Information

The uncertainties and absence of information associated with the above CSM include the limited documentation obtained for the Phase One Property and Phase One Study Area.

7.0 CONCLUSIONS

7.1 GENERAL

Based on the information collected as part of this Phase I ESA, two PCAs at the Phase One Property and one PCA within the Phase One Study Area have been identified. The above PCAs have resulted in three APECs at the site as discussed in Section 6.3 above and shown on Figure 2.

In addition, the following site and existing site contents related issues were identified at the Phase One Property:

- There is potential for vehicular noise, dust and vibrations to exist from the use of March Road and March Valley Road which border the west and east sides of the site, respectively.
- There is potential for the presence of PCBs and ODS related to the hydro transformer on a
 utility pole at the site and the window mounted air conditioning unit observed at the site,
 respectively. However, none of these materials are required to be removed under the
 present conditions or regulations.
- Any wells (drinking water wells and/or monitoring wells) at the site that are not in use should be suitably decommissioned in accordance with O.Reg 903.
- Possible presence of pesticide and herbicide residue from the agricultural use of the site.

7.2 REQUIREMENT FOR A PHASE II ESA

Under the Environmental Protection Act filing a Record of Site Condition (RSC) is required if a change in land use of the site from less sensitive to more sensitive is intended. It is understood based on discussion with a representative of J.G. Rivard Ltd., Mr. D. Page, that no change in land use at the site from less sensitive to more sensitive is currently intended and therefore there is no mandatory requirement to file a RSC for the site. The Province of Ontario document titled "Guide For Completing Phase One Environmental Site Assessments Under Ontario Regulation 153/04", published September 26, 2016, specifies that if a Phase I ESA is not prepared in support of a RSC then the requirements of O.Reg 153/04 and Part XV.1 of the Environmental Protection Act do not apply.

Should the risk of the COPCs with regards to the PCAs identified for the Phase One Study Area need to be reduced, a program of surface and subsurface sampling and related laboratory testing at the site could be carried out.

However, based on the above it is considered that there is no regulatory requirement for a Phase II ESA for the subject site at this time.

7.3 RECORD OF SITE CONDITION BASED ON PHASE I ESA ALONE

As mentioned above, under the Environmental Protection Act filing a RSC is required if a change in land use of the site from less sensitive to more sensitive is intended. It is understood based on discussion with a representative of J.G. Rivard Ltd., Mr. D. Page, that no change in land use at the site from less sensitive to more sensitive is currently intended and therefore there is no mandatory requirement to file a RSC for the site.

8.0 LIMITATIONS AND USE OF REPORT

The results of this Phase I ESA should in no way be construed as a warranty that the subject property is free from any and all contaminants other than those noted in this report, nor that all compliance issues have been addressed.

This report was prepared for the exclusive use of J.G. Rivard Ltd. and is based on data and information collected during the Phase I ESA of the property conducted by Morey Associates Ltd. This report may not be relied upon by any other person or entity without the express written consent of J.G. Rivard Ltd. and Morey Associates Ltd.

In evaluating this site, Morey Associates Ltd. has relied in good faith on information provided by other individuals, companies or government agencies noted in this report. Morey Associates Ltd. has assumed that the information provided is factual and accurate and Morey Associates Ltd. has not independently verified the accuracy of completeness of such information. The assessment of environmental conditions and possible site hazards presented have been made using readily available technical data collected and provided by others. Morey Associates Ltd. accepts no responsibility for any deficiencies, misstatements or inaccuracies in this report as a result of omission, misinterpretations, or fraudulent acts of others. Morey Associates Ltd. makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to periodic amendment. In addition, regulatory statutes are subject to interpretation and these interpretations may change over time.

This report documents work that was carried out with generally accepted professional standards at the time and location in which the services were provided. No other representations, warranties or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential liabilities associated with the identified property.

The conclusions provided herein represent an opinion of Morey Associates Ltd. as of the time of preparation of this report based on current environmental standards and the limited data available and are not a certification of the subject site's environmental condition. Accordingly, additional

environmental studies and actions may be required. In addition, it is recognized that the passage of time affects the information provided in this report. This report should not be construed as legal advice. Due to the nature of the investigation and the limited data available, we cannot warrant against undiscovered environmental liabilities. If new information is discovered during future work, including excavations, borings or other studies, Morey Associates Ltd. should be requested to reevaluate the conclusions presented in this report and provide amendments as required.

This report has not been prepared in support of filing a record of site condition.

9.0 SIGNATURES

We trust that this report is sufficient for your present requirements. If you have any questions concerning this report, please do not hesitate to contact our office.

PROFESSIONAL, D.G. M.

Yours truly,

Morey Associates Ltd.

D.G. Mo-

D. G. Morey, B.A.Sc (Civil Eng.), P.Eng.

Director/Civil Engineer

C. R. Morey, M.Sc. (Eng.), P. Eng. Senior Consulting Engineer

10.0 REFERENCES

Ontario Regulation 153/04 Records Of Site Condition-Part XV.1 Of The Act, dated July 28, 2017.

Guide For Completing Phase One Environmental Site Assessments Under Ontario Regulation 153/04, Province of Ontario, dated September 26, 2017

Internet Source: Google Maps Website: Aerial photograph and street view photographs.

Fire Insurance Plans, Enviroscan Report, dated April 17, 2019.

Internet source: Ontario Ministry of the Environment, Conservation and Parks: On line map-based access environment database search website.

Internet source: Ontario Ministry of the Environment, Conservation and Parks: On line map-based well record search website.

Internet source: Province of Ontario: Small and Large Landfill Sites: On line search website.

Internet source: City of Ottawa: Geomaps website.

Internet source: Mississippi Valley Conservation Authority: Regulation Public Mapping Browser.

Environmental Risk Information Services (ERIS) database report, dated April 12, 2019.

Map 1506A – Surficial Geology – Ottawa, Ontario-Quebec – Geological Survey of Canada, dated 1982.

Map 1508A – Generalized Bedrock Geology, Ottawa-Hull, Quebec and Ontario - Geological Survey of Canada, dated 1979.

KEY PLAN FIGURE 1



NOT TO SCALE



Project No. 019179

Date May 2019



DRAWING NOTES

- 1. All dimensions are in metres. Do not scale drawing.
- 2. This drawing should be read in conjunction with the accompanying Morey Associates Ltd. report for file No. 019179.
- 3. This drawing is not a legal survey plan.
- 4. Any changes made to this plan must be verified and approved by Morey Associates Ltd.

LEGEND:

Approximate Phase One Property



Approximate Phase One Study Area



REFERENCE:

Base plan referenced from Google Maps Website: satellite images.

Approximate property boundaries referenced from City of Ottawa geomaps

DRAWING

PHASE ONE CONCEPTUAL SITE MODEL PLAN FIGURE 2

LOCATION

1020 & 1070 MARCH ROAD OTTAWA, ONTARIO PROJECT

PHASE I ENVIRONMENTAL SITE ASSESSMENT

CLIENT

J.G. RIVARD LTD.

 DATE
 DRAWING No.
 DRAWN BY
 APPROX. SCALE
 FILE NO.

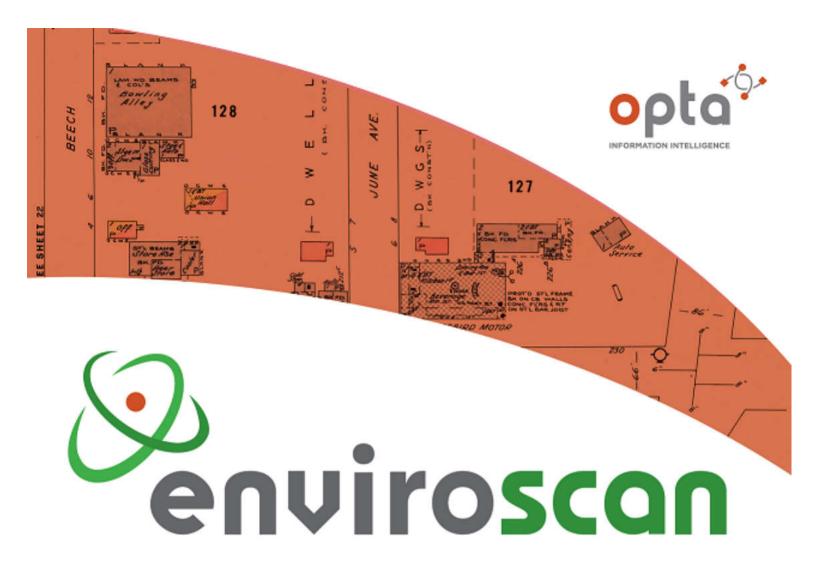
 May 2019
 1 of 1
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 1:7500
 019179



2672 HWY.43, PO BOX 184 KEMPTVILLE, ONTARIO K0G 1J0 T:613.215.0605 F:613.258.0605 info@moreyassociates.com

APPENDIX A

SEARCH RESULTS OF ENVIROSCAN REPORT









An SCM Company

175 Commerce Valley Drive W Markham, Ontario L3T 7Z3

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

Report Completed By:

Anthony

Site Address:

1020 1070 March Road Kanata ON

Project No:

20190406001 Opta Order ID:

59982

Requested by:

Eleanor Goolab Ecolog ERIS

Date Completed:

4/17/2019 1:49:30 PM

Page: 2

Project Name: 019179

Project #: 20190406001 P.O. #: 019179

ENVIROSCAN Report

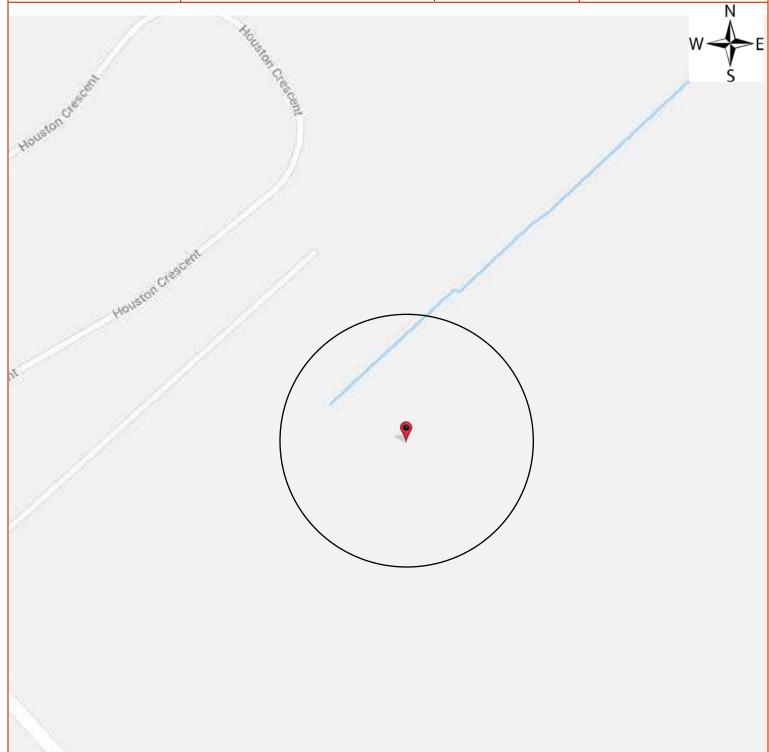
Search Area: 1020 1070 March Road Kanata ON

Requested by:

Eleanor Goolab Date Completed: 04/17/2019 13:49:30



OPTA INFORMATION INTELLIGENCE





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Page: 3

Project Name: 019179

Project #: 20190406001 P.O. #: 019179

ENVIROSCAN Report

Opta Historical Environmental Services Enviroscan Terms and Conditions

Requested by: Eleanor Goolab Date Completed: 04/17/2019 13:49:30



OPTA INFORMATION INTELLIGENCE

Opta Historical Environmental Services Enviroscan Terms and Conditions

Report

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

Disclaimer

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

Entire Agreement

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

Governing Document

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

Law

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



175 Commerce Valley Drive W

Markham, Ontario

L3T 7Z3

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Toll Free: 905.882.6300

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An SCM Company

www.optaintel.ca

Page: 4 Project Name: 019179

Project #: 20190406001

P.O. #: 019179

ENVIROSCAN Report

No Records Found

Requested by: Eleanor Goolab Date Completed: 04/17/2019 13:49:30



No Records Found

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APPENDIX B

CHAIN OF TITLE DOCUMENTATION

	101010	Purchaser	Edward Ganda	Brolley	Quellian	montposense	Serge	massen		Jahn	anotone	Seerge	magan	Millein	gragan		7	green		Elegnen J.		
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	Purchaser	Etward Bands	aillin montgeney	Dominich Bube	Joseph Baris	Jacob E Bari	James M. Baris	Eder Bais (Essentors)	
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	INSTRUMENT #		R020	80596	921 HW	6991 HW	52768177	W618798	

APPENDIX C

ERIS DATABASE REPORT



Project Property: 019179

1020 & 1070 March Road

Kanata ON K2K 1X7

Project No: 019179

Report Type: Quote - Custom-Build Your Own Report

Order No: 20190406001

Requested by: Morey Associates Ltd

Date Completed: April 12, 2019

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Executive Summary

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Pro	nertv	Inforn	nation:

Project Property: 019179

1020 & 1070 March Road Kanata ON K2K 1X7

Order No: 20190406001

Project No: 019179

Order Information:

 Order No:
 20190406001

 Date Requested:
 April 6, 2019

Requested by: Morey Associates Ltd

Report Type: Quote - Custom-Build Your Own Report

Historical/Products:

Insurance Products Fire Insurance Maps/Inspection Reports/Site Plans

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	3	3
CA	Certificates of Approval	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar	Υ	0	0	0
CONV	Sites Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Υ	0	0	0
DRYCLEANERS	Dry Cleaning Facilities	Υ	0	0	0
EASR	Environmental Activity and Sector Registry	Υ	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	1	1
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EXP	List of TSSA Expired Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Υ	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
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MISA PENALTY	Environmental Penalty Annual Report	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
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	Υ	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
ОРСВ	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	1	1
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Υ	0	0	0
WWIS	Water Well Information System	Y	10	4	14
	-	Total:	10	10	20

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		lot 13 con 4 ON	-/0.0	-1.20	<u>15</u>
			Well ID: 1528691			
1	WWIS		lot 13 con 4 ON	-/0.0	-1.20	18
			Well ID: 1524696			
<u>1</u>	WWIS		lot 13 con 4 ON	-/0.0	-1.20	<u>22</u>
			Well ID: 1528607			
1	WWIS		lot 13 con 4 ON	-/0.0	-1.20	<u>25</u>
			Well ID: 1521952			
<u>1</u>	WWIS		lot 13 con 4 ON	-/0.0	-1.20	28
			Well ID: 1526583			
1	WWIS		lot 13 con 4 ON	-/0.0	-1.20	32
			Well ID: 1530155			
1	WWIS		lot 13 con 4 ON	-/0.0	-1.20	<u>35</u>
			Well ID: 1529531			
1	WWIS		lot 13 con 4 ON	-/0.0	-1.20	38
			Well ID: 1530724			

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	WWIS		lot 13 con 4 ON	-/0.0	-1.20	42
			Well ID : 1522193			
1	wwis		lot 13 con 4 ON	-/0.0	-1.20	<u>45</u>
			Well ID: 1530542			

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>2</u> .	BORE		ON	WSW/59.3	8.88	49
<u>2</u> ·	WWIS		lot 13 con 3 ON <i>Well ID:</i> 1503360	WSW/59.3	8.88	49
<u>3</u>	WWIS		lot 13 con 3 ON <i>Well ID</i> : 1514134	WSW/78.0	9.91	<u>52</u>
<u>4</u> .	EHS		1105 March Rd Ottawa ON K2K1X7	WSW/167.3	10.95	<u>55</u>
<u>5</u> .	ECA	Ottawa Catholic District School Board	1105 March Rd Ottawa ON K2G 3R4	W/175.0	9.73	<u>55</u>
<u>6</u> .	wwis		lot 15 ON <i>Well ID:</i> 1531884	NW/176.3	2.80	<u>55</u>
<u>7</u> ·	SCT	Golden Windows Limited	1112 March Rd Kanata ON K2W 1B9	W/179.2	8.80	· <u>59</u>
<u>8</u> ·	wwis		lot 27 ON <i>Well ID</i> : 1532829	NNW/207.1	-2.29	<u>59</u>
<u>9</u>	BORE		ON	SW/218.7	7.76	<u>62</u>
<u>10</u> ·	BORE		ON	S/241.0	2.88	63

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 3 BORE site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	59.3	<u>2</u>
	ON	218.7	- <u>9</u>
	ON	241.0	<u>10</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Feb 28, 2019 has found that there are 1 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	Distance (m)	Map Key
Ottawa Catholic District School Board	1105 March Rd Ottawa ON K2G 3R4	175.0	<u> </u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jan 31, 2019 has found that there are 1 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	Distance (m)	<u>Map Key</u>
	1105 March Rd	167.3	4
	Ottawa ON K2K1X7		_

SCT - Scott's Manufacturing Directory

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

<u>Site</u>	<u>Address</u>	Distance (m)	Map Key
Golden Windows Limited	1112 March Rd Kanata ON K2W 1B9	179.2	7

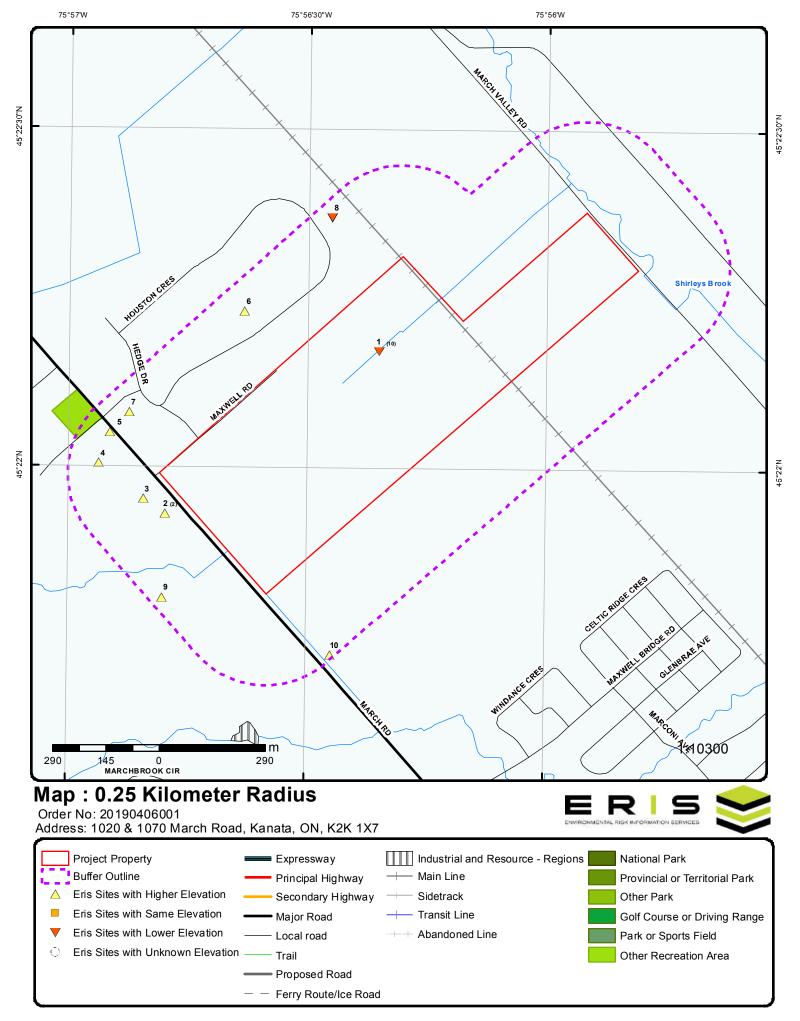
WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31, 2017 has found that there are 14 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	lot 13 con 4 ON	0.0	1
	Well ID: 1530724		
	lot 13 con 4 ON	0.0	· <u>1</u>
	Well ID: 1522193		
	lot 13 con 4 ON	0.0	<u>1</u>
	Well ID: 1530542		
	lot 13 con 4 ON	0.0	· <u>1</u>
	Well ID: 1529531		
	lot 13 con 4 ON	0.0	<u>1</u>
	Well ID: 1530155		
	lot 13 con 4 ON	0.0	<u>1</u>
	Well ID: 1526583		
	lot 13 con 4 ON	0.0	. <u>1</u>
	Well ID: 1521952		
	lot 13 con 4 ON	0.0	<u>1</u>

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Address Well ID: 1528607	Distance (m)	Map Key
lot 13 con 4 ON	0.0	<u>1</u>
Well ID: 1528691		
lot 13 con 4 ON	0.0	<u>1</u>
Well ID: 1524696		
lot 13 con 3 ON	59.3	2 2
Well ID: 1503360		
lot 13 con 3 ON	78.0	<u>3</u>
Well ID : 1514134		
lot 15 ON	176.3	<u>6</u>
Well ID: 1531884		
lot 27 ON	207.1	<u>8</u>
Well ID: 1532829		



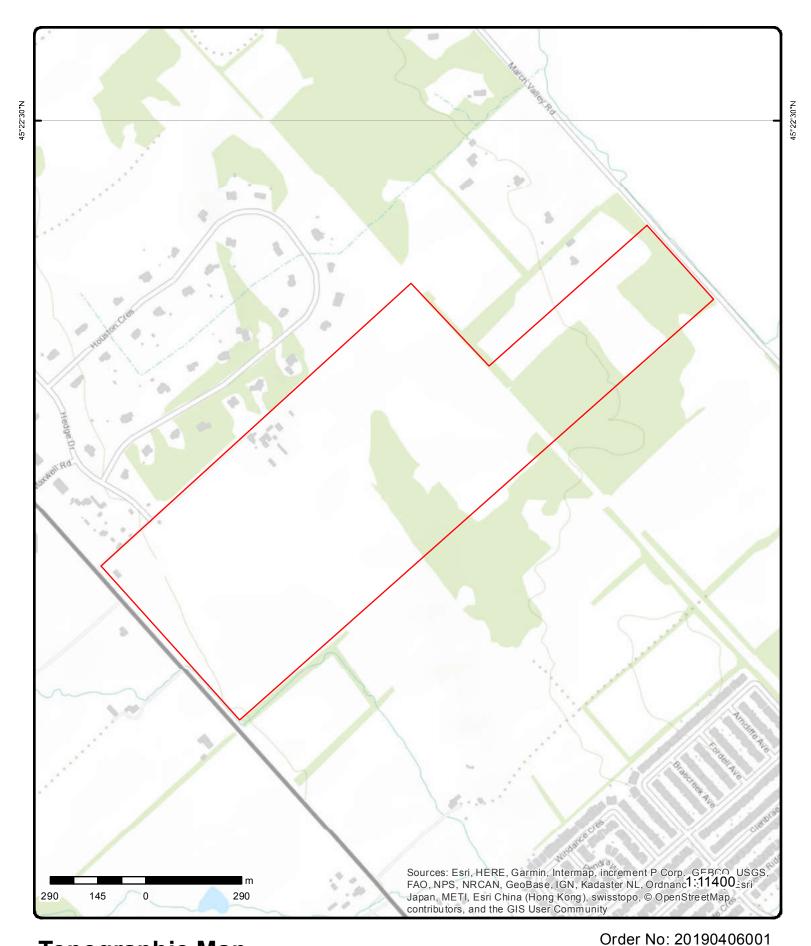


Aerial (2017)

Address: 1020 & 1070 March Road, Kanata, ON, K2K 1X7

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Topographic Map

Address: 1020 & 1070 March Road, Kanata, ON, K2K 1X7

Source: ESRI World Topographic Map



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Detail Report

Map Key	Numbe Record	-	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
1	1 of 10		-/0.0	76.9 / -1.20	lot 13 con 4 ON		wwis
Well ID:		1528691			Data Entry Status:		
Constructio	n Date:				Data Src:	1	
Primary Was		Domestic			Date Received:	8/29/1995	
Sec. Water l	Use:				Selected Flag:	Yes	
Final Well S	tatus:	Water Supp	oly		Abandonment Rec:		
Water Type:					Contractor:	5222	
Casing Mate	erial:				Form Version:	1	
Audit No:		151731			Owner:		
Tag:					Street Name:		
Constructio	on				County:	OTTAWA-CARLETON	
Method:					Manalaina!!+	MARCHTOMANOUR	
Elevation (n					Municipality:	MARCH TOWNSHIP	
Elevation Re					Site Info: Lot:	013	
Depth to Be Well Depth:					Concession:	013	
Overburden					Concession Name:	CON	
Pump Rate:					Easting NAD83:	0011	
Static Water					Northing NAD83:		
Flowing (Y/I					Zone:		
Flow Rate:	·-/-				UTM Reliability:		
Clear/Cloud	ly:				•		
Bore Hole In							
Bore Hole II	D:	10050227			Elevation:	71.49	
DP2BR:		18			Elevrc:		
Spatial State	us:				Zone:	18	
Code OB:		r Davidson ala			East83:	426456.6	
Code OB De	esc:	Bedrock			North83:	5024432	
Open Hole:	-1-				Org CS:	9	
Cluster Kind Date Compl		09-AUG-95			UTMRC: UTMRC Desc:	unknown UTM	
Remarks:	eteu.	09-A0G-93			Location Method:	lot	
Elevrc Desc:					Location Method.	101	
Location Sol							
Improvemen		Source:					
Improvemen							
Source Revi	sion Comm						
Supplier Cor	mment:						
0	and Bades	-1-					
<u>Overburden</u> Materials Int		<u>CK</u>					
Formation ID	D:		31070503				
Layer:		4					
Color:		2					
General Colo	or:		REY				
Mat1:		1:	ጎ				

Order No: 20190406001

LIMESTONE

15

73 HARD

Other Materials:

Most Common Material:

Mat1:

Mat2:

Mat3:

Other Materials:
Formation Top Depth: 78
Formation End Depth: 85
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

 Formation ID:
 931070502

 Layer:
 3

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2: 73 Other Materials: HARD

Mat3:

Other Materials:

Formation Top Depth: 18
Formation End Depth: 78
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931070500

Layer: 1 Color: 6

General Color: BROWN Mat1: 08

Most Common Material: FINE SAND

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931070501

Layer: 2 Color: 4

General Color: GREEN
Mat1: 05
Most Common Material: CLAY
Mat2: 66
Other Materials: DENSE

Other Material Mat3:

Other Materials:

Formation Top Depth: 5
Formation End Depth: 18
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

 Plug ID:
 933113620

 Layer:
 1

Plug From: 0 Plug To: 20 Plug Depth UOM:

Method of Construction & Well

Method Construction ID: 961528691

Method Construction Code:

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

Pipe ID: 10598797

Casing No: Comment: Alt Name:

Construction Record - Casing

930087783 Casing ID:

Layer: 2

Material:

Open Hole or Material: **OPEN HOLE**

Depth From: Depth To: 85 Casing Diameter: 6 Casing Diameter UOM: inch Casing Depth UOM:

Construction Record - Casing

Casing ID: 930087782

Layer: 1 Material: Open Hole or Material: **STEEL**

Depth From:

22 Depth To: Casing Diameter: 6 Casing Diameter UOM: inch Casing Depth UOM:

Results of Well Yield Testing

991528691 Pump Test ID:

Pump Set At:

32 Static Level: Final Level After Pumping: 70 Recommended Pump Depth: 70 Pumping Rate: 8

Flowing Rate:

Recommended Pump Rate: 6 Levels UOM: ft Rate UOM: **GPM** Water State After Test Code: Water State After Test: **CLEAR** Pumping Test Method: 1

2 **Pumping Duration HR: Pumping Duration MIN:** 0 Flowing: Ν

Water Details

Water ID: 933488504

 Layer:
 2

 Kind Code:
 1

 Kind:
 FRESH

 Water Found Depth:
 80

 Water Found Depth UOM:
 ft

Water Details

 Water ID:
 933488503

 Layer:
 1

 Kind Code:
 1

 Kind:
 FRESH

 Water Found Depth:
 57

ft

1 2 of 10 -/0.0 76.9 / -1.20 lot 13 con 4 WWIS

Well ID: 1524696

Construction Date:

Water Found Depth UOM:

Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply

Water Type: Casing Material:

Audit No: 84330

Tag:

Construction
Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Overburden/Bedrock Pump Rate: Static Water Level:

Flowing (Y/N): Flow Rate: Clear/Cloudy: Data Entry Status:

Data Src:

Date Received: 8/15/1990
Selected Flag: Yes
Abandonment Rec:
Contractor: 5222
Form Version: 1

Owner: Street Name:

County: OTTAWA-CARLETON

MARCH TOWNSHIP

Municipality:

Site Info:

 Lot:
 013

 Concession:
 04

 Concession Name:
 CON

Easting NAD83: Northing NAD83:

Zone:

UTM Reliability:

Bore Hole Information

Bore Hole ID: 10046444

DP2BR: 19 Spatial Status:

Code OB: r Code OB Desc: Bedrock

Open Hole: Cluster Kind:

Date Completed: 13-JUN-90

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment:

Supplier Comment:

Elevation: 71.49

Elevrc:

Zone: 18 **East83:** 426456.6 **North83:** 5024432

Org CS:

UTMRC:

UTMRC Desc: unknown UTM

Location Method: lot

Overburden and Bedrock

Materials Interval

Formation ID: 931058792

 Layer:
 3

 Color:
 2

 General Color:
 GREY

 Mat1:
 05

 Most Common Material:
 CLAY

Mat2:

Other Materials:

Mat3:

Other Materials:
Formation Top Depth: 10
Formation End Depth: 19
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931058790

 Layer:
 1

 Color:
 6

 General Color:
 BROWN

 Mat1:
 10

Most Common Material: COARSE SAND

Mat2: 10

Other Materials: COARSE SAND

Mat3:

Other Materials:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931058794

 Layer:
 5

 Color:
 2

 General Color:
 GREY

 Mat1:
 18

Most Common Material: SANDSTONE

Mat2: 15

Other Materials: LIMESTONE

Mat3:73Other Materials:HARDFormation Top Depth:102Formation End Depth:113Formation End Depth UOM:ft

Overburden and Bedrock

Materials Interval

Formation ID: 931058793

 Layer:
 4

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2: 78

Other Materials: MEDIUM-GRAINED

Mat3: 73

Other Materials: HARD
Formation Top Depth: 19
Formation End Depth: 102
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931058791

 Layer:
 2

 Color:
 6

 General Color:
 BROWN

 Mat1:
 05

 Most Common Material:
 CLAY

 Mat2:
 79

 Other Materials:
 PACKED

Mat3:

Other Materials:

Formation Top Depth: 5
Formation End Depth: 10
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933110913

 Layer:
 1

 Plug From:
 0

 Plug To:
 20

 Plug Depth UOM:
 ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 961524696

Method Construction Code:5Method Construction:Air Percussion

Other Method Construction:

Pipe Information

Pipe ID: 10595014

Casing No: 1
Comment:

Construction Record - Casing

Casing ID: 930081321

Layer: 2 Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Alt Name:

Depth To:113Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

Construction Record - Casing

Casing ID: 930081320

Layer: 1
Material: 1

Open Hole or Material: STEEL

Depth From:

Depth To:22Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

Results of Well Yield Testing

Pump Test ID: 991524696

Pump Set At: Static Level:

Final Level After Pumping: 95
Recommended Pump Depth: 95
Pumping Rate: 5
Flowing Rate:

Recommended Pump Rate: 4
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1

Water State After Test: CL Pumping Test Method: 1 Pumping Duration HR: 2 Pumping Duration MIN: 0 Flowing: N

Draw Down & Recovery

Pump Test Detail ID:934109469Test Type:Draw DownTest Duration:15

Test Level: 95
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:934654660Test Type:Draw Down

 Test Duration:
 45

 Test Level:
 95

 Test Level UOM:
 ft

Draw Down & Recovery

Pump Test Detail ID:934384882Test Type:Draw Down

 Test Duration:
 30

 Test Level:
 95

 Test Level UOM:
 ft

Draw Down & Recovery

Pump Test Detail ID:934903038Test Type:Draw Down

 Test Duration:
 60

 Test Level:
 95

 Test Level UOM:
 ft

Water Details

Water ID: 933483409

 Layer:
 1

 Kind Code:
 1

 Kind:
 FRESH

 Water Found Depth:
 108

 Water Found Depth UOM:
 ft

1 3 of 10 -/0.0 76.9 / -1.20 lot 13 con 4 WWIS

Well ID: 1528607

Construction Date:

Primary Water Use: Domestic

Sec. Water Use:

Final Well Status: Water Supply

Water Type: Casing Material:

Audit No: 152979

Tag:
Construction
Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:

. Well Depth:

Overburden/Bedrock:

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

Data Src:

Date Received: 8/28/1995 Selected Flag: Yes

Abandonment Rec:

Contractor: 5222 Form Version: 1

Owner: Street Name:

County: OTTAWA-CARLETON

Municipality: MARCH TOWNSHIP

Site Info:

 Lot:
 013

 Concession:
 04

 Concession Name:
 CON

Easting NAD83: Northing NAD83: Zone: UTM Reliability:

Bore Hole Information

Bore Hole ID: 10050143

DP2BR: 11

Spatial Status:

Code OB:

Code OB Desc: Bedrock

Open Hole:

Cluster Kind:

Date Completed: 09-JUN-94

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment:

Supplier Comment:

Elevation: 71.49

Elevrc:

Zone: 18 **East83:** 426456.6 **North83:** 5024432

Org CS:

UTMRC: 9

UTMRC Desc: unknown UTM

Order No: 20190406001

Location Method: lot

Overburden and Bedrock

Materials Interval

Formation ID: 931070207

Layer: 3 Color: 2 General Color: **GREY** 05 Mat1: Most Common Material: CLAY Mat2: 84 Other Materials: SILTY Mat3: 66

Other Materials:DENSEFormation Top Depth:5Formation End Depth:11Formation End Depth UOM:ft

Overburden and Bedrock

Materials Interval

Formation ID: 931070206

Layer: 6 Color: **BROWN** General Color: Mat1: 05 Most Common Material: CLAY 28 Mat2: Other Materials: SAND 79 Mat3: **PACKED** Other Materials: 2 Formation Top Depth: Formation End Depth: 5 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931070208

 Layer:
 4

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2: 73 Other Materials: HARD

Mat3:

Other Materials:

Formation Top Depth: 11
Formation End Depth: 76
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931070209

 Layer:
 5

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2: 18

Other Materials: SANDSTONE

Mat3: 74

Other Materials: LAYERED Formation Top Depth: 76

Formation End Depth: 90
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931070205

Layer: 1 Color: 6

General Color: BROWN Mat1: 05

Most Common Material: CLAY
Mat2: 01
Other Materials: FILL

Mat3:

Other Materials:
Formation Top Depth: 0
Formation End Depth: 2
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

 Plug ID:
 933113524

 Layer:
 1

 Plug From:
 0

Plug To: 20 Plug Depth UOM: ft

Method of Construction & Well

<u>Use</u>

Method Construction ID:961528607Method Construction Code:5

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

 Pipe ID:
 10598713

 Casing No:
 1

Casing No: Comment: Alt Name:

Construction Record - Casing

Casing ID: 930087646

Layer: 2

Material:

Open Hole or Material:

Depth From:

Depth To:90Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

Construction Record - Casing

Casing ID: 930087645

 Layer:
 1

 Material:
 1

 Open Hole or Material:
 STEEL

 Depth From:
 22

 Casing Diameter:
 6

 Casing Diameter UOM:
 inch

 Casing Depth UOM:
 ft

Results of Well Yield Testing

Map Key Numb Reco		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Pump Test ID: Pump Set At: Static Level: Final Level After Pum Recommended Pump Pumping Rate: Flowing Rate: Recommended Pump Levels UOM: Rate UOM: Water State After Test Water State After Test Pumping Test Method Pumping Duration HR Pumping Duration Mill Flowing:	ping: 80 Depth: 80 5 Rate: 4 ft G t Code: 1 t: CI					
Water Details Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth U	1 1 FF 56	33488362 RESH				
Water Details Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth U	2 1 FF 81					
Mell ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock Pump Rate: Static Water Level:	1521952 Domestic Water Supp 22036	<i>-∕0.0</i>	76.9 / -1.20	lot 13 con 4 ON Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83:	1 11/10/1987 Yes 5222 1 OTTAWA-CARLETON MARCH TOWNSHIP 013 04 CON	WWIS
Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Northing NAD83: Zone: UTM Reliability:		

Bore Hole ID: 10043765 Elevation:

71.49 Elevrc: DP2BR: 10 Spatial Status: Zone: 18 Code OB: East83:

426456.6 Code OB Desc: Bedrock North83: 5024432 Open Hole: Org CS: UTMRC:

Cluster Kind: Date Completed: 22-OCT-87 UTMRC Desc: unknown UTM

Remarks: Location Method: lot Elevrc Desc:

Location Source Date: Improvement Location Source: Improvement Location Method:

Overburden and Bedrock

Source Revision Comment: Supplier Comment:

Materials Interval

Formation ID: 931049759

Layer: 2 Color: **GREY** General Color: 01 Mat1: Most Common Material: **FILL** 77 Mat2: LOOSE Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 0 Formation End Depth: 2 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931049760

Layer: Color: 2 **GREY** General Color: Mat1: 05 Most Common Material: **CLAY** Mat2: 12 **STONES** Other Materials: Mat3: 79 **PACKED** Other Materials: Formation Top Depth: 2 Formation End Depth: 10 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

931049762 Formation ID: Layer: 4 Color: General Color: WHITE

Mat1: 15 Most Common Material: LIMESTONE Mat2: 73

Other Materials: **HARD** Mat3:

Other Materials: MEDIUM-GRAINED

Formation Top Depth: 26
Formation End Depth: 40
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

 Formation ID:
 931049761

 Layer:
 3

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2: 85
Other Materials: SOFT

Mat3:

Other Materials:

Formation Top Depth: 10
Formation End Depth: 26
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933109656

 Layer:
 1

 Plug From:
 0

 Plug To:
 22

 Plug Depth UOM:
 ft

Method of Construction & Well

<u>Use</u>

Method Construction ID:961521952Method Construction Code:5

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

 Pipe ID:
 10592335

 Casing No:
 1

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930076484

Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:

Depth To:22Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

Construction Record - Casing

Casing ID: 930076485

Layer: 2

Мар Кеу	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Material: Open Hole of Depth From:			4 OPEN HOLE				
Depth To:			40 6				
Casing Diam Casing Diam			inch				
Casing Depti			ft				
Results of W	ell Yield Te	<u>sting</u>					
Pump Test IL Pump Set At			991521952				
Static Level:			8				
Final Level A			38				
Recommend Pumping Rat	te:	ертп:	38 12				
Flowing Rate Recommend		ato:	10				
Levels UOM:		ale.	ft				
Rate UOM:			GPM				
Water State		ode:	1 CL EAD				
Water State A Pumping Tes			CLEAR 1				
Pumping Du			2				
Pumping Du			0				
Flowing:			N				
Water Details	<u>s</u>						
Water ID:			933479684				
Layer:			1				
Kind Code: Kind:			1 FRESH				
Water Found	Depth:		27				
Water Found		И:	ft				
Water Details	<u>s</u>						
Water ID:			933479685				
Layer:			2				
Kind Code:			1 FRESH				
Kind: Water Found	l Denth:		36				
Water Found		И:	ft				
1	5 of 10		-/0.0	76.9 / -1.20	lot 13 con 4 ON		wwis
Well ID:		1526583	3		Data Entry Status:		
Construction		_			Data Src:	1	
Primary Wat Sec. Water l		Domesti	С		Date Received: Selected Flag:	10/22/1992 Yes	
Final Well S		Water S	vlagu		Abandonment Rec:	165	
Water Type:					Contractor:	1558	
Casing Mate	erial:	0000=			Form Version:	1	
Audit No:		60320			Owner: Street Name:		
Tag: Construction	n				County:	OTTAWA-CARLETON	
Method:					•		
Elevation (m					Municipality:	MARCH TOWNSHIP	
Elevation Re Depth to Be					Site Info: Lot:	013	
2 Spt. 10 De						- · •	

Order No: 20190406001

Well Depth:

Clear/Cloudy:

Overburden/Bedrock:

Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Concession: 04 Concession Name: CON

Easting NAD83: Northing NAD83:

Zone:

UTM Reliability:

Bore Hole Information

Bore Hole ID: 10048280

DP2BR: 28
Spatial Status:
Code OB: r
Code OB Desc: Bedrock

Open Hole: Cluster Kind:

Date Completed: 17-SEP-92

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment:

Supplier Comment:

Overburden and Bedrock

Materials Interval

Formation ID: 931064593

 Layer:
 2

 Color:
 2

 General Color:
 GREY

 Mat1:
 28

 Most Common Material:
 SAND

 Mat2:
 91

Other Materials: WATER-BEARING

Mat3:

Other Materials:

Formation Top Depth: 4
Formation End Depth: 12
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931064592

 Layer:
 1

 Color:
 6

 General Color:
 BROWN

 Mat1:
 28

 Most Common Material:
 SAND

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 0
Formation End Depth: 4
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Elevation: 71.49

Elevrc:

Zone: 18 **East83:** 426456.6 **North83:** 5024432

Org CS:

UTMRC: 9

UTMRC Desc: unknown UTM

Order No: 20190406001

Location Method: lot

Formation ID: 931064594

 Layer:
 3

 Color:
 2

 General Color:
 GREY

 Mat1:
 05

 Most Common Material:
 CLAY

 Mat2:
 81

 Other Materials:
 SANDY

Mat3:91Other Materials:WATER-BEARING

Formation Top Depth: 12
Formation End Depth: 28
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931064595

 Layer:
 4

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2: 73
Other Materials: HARD

Mat3:

Other Materials:

Formation Top Depth: 28
Formation End Depth: 99
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933111814

 Layer:
 1

 Plug From:
 5

 Plug To:
 30

 Plug Depth UOM:
 ft

Method of Construction & Well

<u>Use</u>

Method Construction ID:961526583Method Construction Code:5

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

Pipe ID: 10596850

Casing No: 1
Comment:

Alt Name:

Construction Record - Casing

Casing ID: 930084540

Layer: 2 Material: 4

Open Hole or Material: OPEN HOLE

Depth From:
Depth To: 99
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930084539

Layer: 1
Material: 1

Open Hole or Material: STEEL Depth From:

Depth To: 30
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526583

Pump Set At:

Static Level: 17
Final Level After Pumping: 25
Recommended Pump Depth: 50
Pumping Rate: 50
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft

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: N

Draw Down & Recovery

 Pump Test Detail ID:
 934652509

 Test Type:
 Recovery

 Test Duration:
 45

 Test Level:
 17

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934391574

 Test Type:
 Recovery

 Test Duration:
 30

 Test Level:
 17

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934107944

 Test Type:
 Recovery

 Test Duration:
 15

 Test Level:
 18

 Test Level UOM:
 ft

Draw Down & Recovery

Pump Test Detail ID: 934909705 Recovery Test Type: Test Duration: 60 Test Level: 17 Test Level UOM: ft

Water Details

Water ID: 933485945

Layer: Kind Code: 5

Not stated Kind: Water Found Depth: 84 Water Found Depth UOM: ft

1 6 of 10 -/0.0 76.9 / -1.20 lot 13 con 4 **WWIS** ON

Well ID: 1530155 Construction Date:

Primary Water Use: Domestic

Sec. Water Use:

Final Well Status: Water Supply

Water Type: Casing Material:

Audit No: 192911

Tag:

Construction

Method: Elevation (m): Elevation Reliability:

Pump Rate:

Flowing (Y/N): Flow Rate:

Depth to Bedrock: Well Depth: Overburden/Bedrock: Static Water Level:

Clear/Cloudy:

County: Municipality: MARCH TOWNSHIP

Site Info: 013 Lot: Concession: 04 CON Concession Name:

8/27/1998

OTTAWA-CARLETON

Yes

4875

71.49

5024432

unknown UTM

Order No: 20190406001

18 426456.6

lot

1

Easting NAD83: Northing NAD83: Zone:

Data Entry Status:

Abandonment Rec:

Date Received:

Selected Flag:

Form Version:

Contractor:

Owner: Street Name:

Data Src:

UTM Reliability:

Elevation:

Elevrc:

East83:

North83:

Org CS: UTMRC:

UTMRC Desc:

Location Method:

Zone:

Bore Hole Information

10051690 Bore Hole ID: DP2BR: 12

Spatial Status:

Code OB:

Code OB Desc: **Bedrock**

Open Hole: Cluster Kind:

Date Completed: 08-JUN-98

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment:

Supplier Comment:

Overburden and Bedrock

Materials Interval

Formation ID: 931074670

Layer: 3 Color: General Color: WHITE Mat1: 18

Most Common Material: SANDSTONE

Mat2:

Other Materials: Mat3: Other Materials: Formation Top Depth:

80 125 Formation End Depth: Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

931074669 Formation ID: Layer: 2 Color: **GREY** General Color:

LIMESTONE Most Common Material:

15

Mat1: Mat2:

Other Materials: Mat3: Other Materials:

Formation Top Depth: 12 Formation End Depth: 80 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

931074668 Formation ID: Layer: Color: **GREY** General Color: Mat1: 05 CLAY

Most Common Material: Mat2:

Other Materials:

Mat3:

Other Materials: 0 Formation Top Depth: Formation End Depth: 12 Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933115283 Layer: 1 Plug From: 2 19 Plug To: Plug Depth UOM: ft

Method of Construction & Well

Method Construction ID: 961530155

Method Construction Code:

Method Construction: Air Pe

Other Method Construction:

Air Percussion

Pipe Information

Pipe ID: 10600260

Casing No: Comment:

Alt Name:

Construction Record - Casing

Casing ID: 930090077

Layer: 1 Material: 1

Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM:

STEEL
19
6
casing Diameter inch

Construction Record - Casing

Casing ID: 930090078

Layer: 2 Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To:125Casing Diameter:5Casing Diameter UOM:inchCasing Depth UOM:ft

Results of Well Yield Testing

Pump Test ID: 991530155

Pump Set At:

Static Level: 7
Final Level After Pumping: 100
Recommended Pump Depth: 100
Pumping Rate: 15
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft

Rate UOM:

Water State After Test Code:

Water State After Test:

Pumping Test Method:

Pumping Duration HR:

Pumping Duration MIN:

Flowing:

CPM

GPM

CLOUDY

1

CLOUDY

1

Pumping Duration HR:

N

Draw Down & Recovery

 Pump Test Detail ID:
 934392757

 Test Type:
 Recovery

 Test Duration:
 30

 Test Level:
 10

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934910454

 Test Type:
 Recovery

 Test Duration:
 60

 Test Level:
 7

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934661912

 Test Type:
 Recovery

 Test Duration:
 45

 Test Level:
 8

 Test Level UOM:
 ft

Water Details

 Water ID:
 933490217

 Layer:
 1

 Kind Code:
 5

 Kind:
 Not stated

Water Found Depth: 120
Water Found Depth UOM: ft

1 7 of 10 -/0.0 76.9 / -1.20 lot 13 con 4 WWIS

Data Entry Status:

Order No: 20190406001

Well ID: 1529531

Construction Date:Data Src:1Primary Water Use:Not UsedDate Received:8/21/1997Sec. Water Use:Selected Flag:Yes

Final Well Status: Water Supply Abandonment Rec:
Water Type: Contractor: 2307

 Water Type:
 Contractor:
 2307

 Casing Material:
 Form Version:
 1

 Audit No:
 152625
 Owner:

Tag:Street Name:ConstructionCounty:OTTAWA-CARLETON

 Method:
 Municipality:
 MARCH TOWNSHIP

 Elevation Reliability:
 Site Info:

Depth to Bedrock:Lot:013Well Depth:Concession:04

Overburden/Bedrock: Concession Name: CON
Pump Rate: Easting NAD83:
Static Water Level: Northing NAD83:

Flowing (Y/N): Zone:
Flow Rate: UTM Reliability:
Clear/Cloudy:

Bore Hole Information

 Bore Hole ID:
 10051066
 Elevation:
 71.49

 DP2BR:
 17
 Elevrc:

 Spatial Status:
 Zone:
 18

Code OB Desc:BedrockNorth83:5024432Open Hole:Org CS:

Cluster Kind:UTMRC:9Date Completed:12-AUG-97UTMRC Desc:unknown UTM

Remarks: Location Method: lot

Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock

Materials Interval

Formation ID: 931073045

Layer: Color: 6 **BROWN** General Color: 05 Mat1: Most Common Material: CLAY 73 Mat2: Other Materials: **HARD** 66 Mat3: Other Materials: **DENSE** Formation Top Depth: 0 14 Formation End Depth: ft Formation End Depth UOM:

Overburden and Bedrock

Materials Interval

Formation ID: 931073046

Layer: 2 **Color:** 9

General Color: BLUE-GREY

Mat1: 05
Most Common Material: CLAY

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 14
Formation End Depth: 17
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931073047

 Layer:
 3

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 17
Formation End Depth: 65
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933114542

 Layer:
 1

 Plug From:
 20

 Plug To:
 0

 Plug Depth UOM:
 ft

Method of Construction & Well

<u>Use</u>

Method Construction ID:961529531Method Construction Code:5

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

 Pipe ID:
 10599636

 Casing No:
 1

Comment: Alt Name:

Construction Record - Casing

 Casing ID:
 930089149

 Layer:
 2

Material: 4

Open Hole or Material: OPEN HOLE

Depth From:
Depth To: 65
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930089148

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: 991529531

Pump Set At:

Levels UOM:

Static Level: 6
Final Level After Pumping: 64
Recommended Pump Depth: 60
Pumping Rate: 35
Flowing Rate:
Recommended Pump Rate: 20

Rate UOM:

Water State After Test Code:

Water State After Test:

CLEAR

Pumping Test Method:

Pumping Duration HR:

Pumping Duration MIN:

O

Flowing:

N

ft

Draw Down & Recovery

Pump Test Detail ID: 934660262 Test Type: Recovery Test Duration: 45 Test Level: 6 Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934391099 Test Type: Recovery Test Duration: 30 Test Level: 6 ft Test Level UOM:

Draw Down & Recovery

Pump Test Detail ID: 934116126 Test Type: Recovery Test Duration: 15 Test Level: 6 Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934908799 Test Type: Recovery Test Duration: 60 6 Test Level: Test Level UOM: ft

Water Details

933489529 Water ID: Layer: 1 Kind Code: **FRESH** Kind: Water Found Depth: 58 ft Water Found Depth UOM:

76.9 / -1.20 8 of 10 -/0.0 lot 13 con 4 1 **WWIS** ON

Well ID: 1530724 Construction Date:

Primary Water Use: Domestic Sec. Water Use:

Final Well Status: Water Supply

Water Type:

Casing Material:

Audit No:

206392

Construction

Tag: Method: Elevation (m):

Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Data Entry Status:

Data Src:

9/17/1999 Date Received: Selected Flag: Yes Abandonment Rec:

Contractor: 1119 Form Version: 1

Owner: Street Name:

County: **OTTAWA-CARLETON**

MARCH TOWNSHIP

Municipality: Site Info:

013 Lot: Concession: 04 CON

Concession Name:

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

Pump Rate:

Easting NAD83: Northing NAD83: Static Water Level: Flowing (Y/N): Zone:

UTM Reliability: Flow Rate: Clear/Cloudy:

Bore Hole Information

Bore Hole ID: 10052258 Elevation: 71.49 DP2BR: Elevrc: 17 Spatial Status: 18

Zone: East83: 426456.6 Code OB: Code OB Desc: Bedrock North83: 5024432

Open Hole: Org CS: Cluster Kind: UTMRC:

22-JUN-99 UTMRC Desc: unknown UTM Date Completed:

lot Remarks: Location Method: Elevrc Desc:

Overburden and Bedrock Materials Interval

Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Formation ID: 931076399

Layer: Color:

General Color: Mat1:

05 CLAY Most Common Material:

Mat2: Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 0 17 Formation End Depth: Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

931076401 Formation ID: 3 Layer: Color:

2 **GREY** General Color: 18 Mat1:

Most Common Material: SANDSTONE

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 121 Formation End Depth: 175 Formation End Depth UOM:

Overburden and Bedrock

Materials Interval

Formation ID: 931076400

Order No: 20190406001

 Layer:
 2

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2:

Other Materials: Mat3: Other Materials:

Formation Top Depth: 17
Formation End Depth: 121
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933115866

 Layer:
 1

 Plug From:
 2

 Plug To:
 24

 Plug Depth UOM:
 ft

Method of Construction & Well

<u>Use</u>

Method Construction ID:961530724Method Construction Code:5Method Construction:Air Percussion

Other Method Construction:

Pipe Information

 Pipe ID:
 10600828

 Casing No:
 1

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930091198

Layer: 1 Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To: 22
Casing Diameter: 8
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930091199

Layer: 2 Material: 1

Open Hole or Material: STEEL

Depth From:

Depth To:24Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

Construction Record - Casing

 Casing ID:
 930091200

 Layer:
 3

Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To: 175
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991530724

Pump Set At:

Static Level: 12
Final Level After Pumping: 100
Recommended Pump Depth: 100
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 30
Levels UOM: ft

Recommended Pump Rate: 30
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:
Flowing: N

Draw Down & Recovery

 Pump Test Detail ID:
 934120068

 Test Type:
 Recovery

 Test Duration:
 15

 Test Level:
 12

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934385689

 Test Type:
 Recovery

 Test Duration:
 30

 Test Level:
 12

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934664207

 Test Type:
 Recovery

 Test Duration:
 45

 Test Level:
 12

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934903244

 Test Type:
 Recovery

 Test Duration:
 60

 Test Level:
 12

 Test Level UOM:
 ft

Map Key Number of Direction/ Elev/Diff Site

Records

Distance (m) (m)

-/0.0

1522193

76.9 / -1.20

DB

WWIS

Order No: 20190406001

Water Details

Water ID: 933490954

Layer:

Kind Code:

Kind.

Water Found Depth: 169 Water Found Depth UOM: ft

Water Details

Water ID: 933490953

Layer: Kind Code:

FRESH Kind: Water Found Depth: 132 Water Found Depth UOM: ft

9 of 10

Well ID: Construction Date: Primary Water Use:

Domestic Sec. Water Use: Final Well Status: Water Supply

Water Type: Casing Material:

Audit No: 25086

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:

Bore Hole Information

10044006 Bore Hole ID: DP2BR: 10

Spatial Status:

Code OB: Code OB Desc: **Bedrock**

Open Hole: Cluster Kind:

Date Completed: 09-NOV-87

Remarks:

Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment:

Supplier Comment:

lot 13 con 4 ON

Data Entry Status: Data Src:

2/5/1988 Date Received: Selected Flag: Yes

Abandonment Rec: Contractor: Form Version:

Owner: Street Name:

OTTAWA-CARLETON County:

1558

1

Municipality: MARCH TOWNSHIP

Site Info:

Lot: 013 Concession: 04 Concession Name: CON

Easting NAD83: Northing NAD83:

Zone:

UTM Reliability:

71.49 Elevation:

Elevrc:

Zone: 18 East83: 426456.6 North83: 5024432

Org CS:

UTMRC:

UTMRC Desc: unknown UTM

Location Method:

Overburden and Bedrock

Materials Interval

Formation ID: 931050526

 Layer:
 1

 Color:
 6

 General Color:
 BROWN

 Mat1:
 28

 Most Common Material:
 SAND

 Mat2:
 77

LOOSE

PACKED

Other Materials: Mat3:

Other Materials:

Formation Top Depth: 0 Formation End Depth: 3 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931050527

 Layer:
 2

 Color:
 6

 General Color:
 BROWN

 Mat1:
 05

 Most Common Material:
 CLAY

 Mat2:
 79

Mat2: Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 3
Formation End Depth: 10
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

 Formation ID:
 931050528

 Layer:
 3

 Color:
 2

 General Color:
 GREY

Mat1: 18

Most Common Material:SANDSTONEMat2:73Other Materials:HARD

Mat3:

Other Materials:

Formation Top Depth: 10
Formation End Depth: 140
Formation End Depth UOM: ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 961522193

Method Construction Code:

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

Pipe ID: 10592576

Casing No:

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930076946

Layer: 1 Material: 1

Open Hole or Material: STEEL

Depth From:

Depth To: 30
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930076947

Layer: 2 Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To: 100
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930076948

Layer: 3

Material:

Open Hole or Material:

Depth From:

Depth To: 140
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991522193

Pump Set At: Static Level: 25

Static Level:25Final Level After Pumping:50Recommended Pump Depth:75Pumping Rate:30

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: N

Draw Down & Recovery

Pump Test Detail ID: 934109307

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Test Type:			Draw Down				
Test Duration Test Level:	n:		15 50				
Test Level U	ОМ:		ft				
<u>Draw Down a</u>	& Recovery	<u>′</u>					
Pump Test D	Detail ID:		934392992				
Test Type: Test Duration	m.		Draw Down 30				
Test Level:	11.		50				
Test Level U	ОМ:		ft				
<u>Draw Down a</u>	& Recovery	<u>′</u>					
Pump Test D	Detail ID:		934903375				
Test Type:			Draw Down				
Test Duration Test Level:	n:		60 50				
Test Level U	ОМ:		ft				
Draw Down &	& Recovery	<u>′</u>					
Pump Test D	Detail ID:		934654543				
Test Type:			Draw Down				
Test Duration Test Level:	n:		45 50				
Test Level U	ом:		ft				
Water Details	<u>s</u>						
Water ID:			933479991				
Layer:			1				
Kind Code: Kind:			1 FRESH				
Water Found	l Depth:		138				
Water Found		М:	ft				
<u>1</u>	10 of 10		-/0.0	76.9 / -1.20	lot 13 con 4 ON		wwis
Well ID:		1530542	2		Data Entry Status:		
Construction Primary Wat		Domesti	c		Data Src: Date Received:	1 6/9/1999	
Sec. Water l		Domesti	C		Selected Flag:	Yes	
Final Well S		Water S	upply		Abandonment Rec:		
Water Type:					Contractor: Form Version:	1119 1	
Casing Mate Audit No:	ariai.	192702			Owner:	ı	
Tag:					Street Name:		
Construction	n				County:	OTTAWA-CARLETON	
Method: Elevation (n	n) ·				Municipality:	MARCH TOWNSHIP	
Elevation Re					Site Info:	W. W.O. I TOWNOUTH	
Depth to Be	drock:				Lot:	013	
Well Depth: Overburden					Concession: Concession Name:	04 CON	
Pump Rate:					Easting NAD83:	CON	
Static Water	Level:				Northing NAD83:		
Flowing (Y/I	V):				Zone:		
Flow Rate:					UTM Reliability:		

Order No: 20190406001

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

Zone:

East83:

North83:

Org CS:

UTMRC:

UTMRC Desc:

Location Method:

18

lot

426457.1

5024432

unknown UTM

Order No: 20190406001

Clear/Cloudy:

Bore Hole Information

Bore Hole ID: 10052077 Elevation: 71.49 DP2BR: 24 Elevrc:

Spatial Status:

Code OB:

Code OB Desc: Bedrock

Open Hole:

Cluster Kind:

26-FEB-99 Date Completed:

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment:

Supplier Comment:

Overburden and Bedrock

Materials Interval

Formation ID: 931075836

Layer: 1 Color: General Color: RED Mat1: 28 Most Common Material: SAND

Mat2:

Other Materials:

Mat3:

Other Materials: Formation Top Depth: 0 Formation End Depth: 5 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931075837

Layer:

Color: General Color:

Mat1:

05 CLAY

Most Common Material: Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 5 Formation End Depth: 24 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931075838

Layer: 3 Color: 2 General Color: **GREY** Mat1: 15

Most Common Material:

LIMESTONE

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 24
Formation End Depth: 160
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933115698

 Layer:
 1

 Plug From:
 2

 Plug To:
 60

 Plug Depth UOM:
 ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 961530542

Method Construction Code: 5

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

Pipe ID: 10600647

Casing No: Comment: Alt Name:

Construction Record - Casing

Casing ID: 930090846

Layer: 2
Material: 1
Open Hole or Material: STEEL

Depth From:

Depth To: 31
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930090847

Layer: 3 Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To:60Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

Construction Record - Casing

Casing ID: 930090845

Layer:

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

Material:

nateriai:

Open Hole or Material: OPEN HOLE

Depth From:

Depth To: 29
Casing Diameter: 8
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991530542

Pump Set At:
Static Level: 13
Final Level After Pumping: 50
Recommended Pump Depth: 18
Pumping Rate: 18

Flowing Rate:

Recommended Pump Rate: 18
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: N

Draw Down & Recovery

 Pump Test Detail ID:
 934663067

 Test Type:
 Recovery

 Test Duration:
 45

 Test Level:
 13

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934902237

 Test Type:
 Recovery

 Test Duration:
 60

 Test Level:
 13

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934118928

 Test Type:
 Recovery

 Test Duration:
 15

 Test Level:
 13

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934385104

 Test Type:
 Recovery

 Test Duration:
 30

 Test Level:
 13

 Test Level UOM:
 ft

Water Details

Мар Кеу	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water ID: Layer: Kind Code: Kind: Water Found Water Found		M :	933490710 1 1 FRESH 42 ft			
Water Details	<u>s</u>					
Water ID: Layer: Kind Code: Kind: Water Found Water Found		M :	933490712 3 1 FRESH 53 ft			
Water Details	<u>s</u>					
Water ID: Layer: Kind Code: Kind: Water Found Water Found		м:	933490711 2 1 FRESH 47 ft			
<u>2</u>	1 of 2		WSW/59.3	87.0 / 8.88	ON	BORE
Borehole ID: Use: Drill Method: Easting: Location Acc Elev. Reliabil Total Depth I Township: Lot: Completion I Primary Wate	curacy: lity Note: m: Date:	609844 425871 19.8 MAY-19	67		Type: Status: UTM Zone: Northing: Orig. Ground Elev m: DEM Ground Elev m: Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	Borehole 18 5023992 86.9 82.7
Details Stratum ID: Bottom Dept	th(m):	2183842 3.0	224		Top Depth(m): Stratum Desc:	0.0 CLAY.
Stratum ID: Bottom Dept	th(m):	2183842 19.8	225		Top Depth(m): Stratum Desc:	3.0 LIMESTONE,SANDSTONE.00065 CLAY,SILT. GREY,SOFT. UNSPECIFIED,TILL. SOFT. BEDROCK. 0
<u>2</u>	2 of 2		WSW/59.3	87.0 / 8.88	lot 13 con 3 ON	wwis
Well ID: Construction Primary Wate Sec. Water U Final Well St Water Type: Casing Mater Audit No: Tag:	er Use: Ise: atus:	1503360 Domesti 0 Water S	С		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name:	1 6/20/1967 Yes 1801 1

Order No: 20190406001

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:

County: OTTAWA-CARLETON Municipality: MARCH TOWNSHIP

Site Info:

013 Lot: Concession: 03 CON Concession Name:

Easting NAD83: Northing NAD83: Zone:

UTM Reliability:

Bore Hole Information

10025403 Bore Hole ID: DP2BR: 10

Spatial Status:

Code OB:

Bedrock Code OB Desc:

Open Hole: Cluster Kind:

26-MAY-67 Date Completed:

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock

Materials Interval

Formation ID: 930996661

Layer:

Color:

General Color:

Mat1:

Most Common Material: LIMESTONE Mat2: SANDSTONE

Other Materials:

Mat3: Other Materials:

10 Formation Top Depth: Formation End Depth: 65 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

930996660 Formation ID:

Layer:

Color:

General Color:

Mat1: 05 Most Common Material: CLAY

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 0 Formation End Depth: 10 Formation End Depth UOM: ft

Elevation: Elevrc:

18 Zone:

425870.6 East83: 5023992 North83: Org CS:

UTMRC:

margin of error: 100 m - 300 m UTMRC Desc:

Order No: 20190406001

82.66

Location Method:

Method of Construction & Well

<u>Use</u>

Method Construction ID: 961503360 Method Construction Code: Method Construction: Cable Tool

Other Method Construction:

Pipe Information

Pipe ID: 10573973 Casing No:

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930043557 Layer: Material: 1 **STEEL** Open Hole or Material:

Depth From:

22 Depth To: Casing Diameter: 2 Casing Diameter UOM: inch Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930043558 Layer: 2

Material:

OPEN HOLE Open Hole or Material:

Depth From: 65 Depth To: Casing Diameter: 2 Casing Diameter UOM: inch Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991503360

Pump Set At: Static Level: 0 10 Final Level After Pumping: Recommended Pump Depth: 40 24 Pumping Rate:

Flowing Rate:

5 Recommended Pump Rate: Levels UOM: ft Rate UOM: **GPM** Water State After Test Code:

Water State After Test: **CLEAR** Pumping Test Method: Pumping Duration HR: 1 **Pumping Duration MIN:** 0 Ν Flowing:

Water Details

Water ID: 933456254

Layer: 1 Kind Code: **FRESH** Kind: Water Found Depth: 65 Water Found Depth UOM: ft

1 of 1 WSW/78.0 88.0 / 9.91 lot 13 con 3 3 **WWIS** ON

1514134 Well ID:

Construction Date: Primary Water Use: Domestic

Sec. Water Use:

Final Well Status: Water Supply

Water Type: Casing Material: Audit No:

Tag:

Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth:

Overburden/Bedrock:

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

Data Entry Status:

Data Src:

7/8/1974 Date Received: Selected Flag: Yes

Abandonment Rec:

Contractor: 1558 Form Version:

Owner: Street Name:

County: **OTTAWA-CARLETON** Municipality: MARCH TOWNSHIP

Site Info:

013 Lot: Concession: 03 CON Concession Name:

Easting NAD83: Northing NAD83: Zone:

UTM Reliability:

Bore Hole Information

Bore Hole ID: 10036112

8 DP2BR:

Spatial Status:

Code OB:

Code OB Desc: **Bedrock**

Open Hole:

Cluster Kind:

18-JUN-74 Date Completed:

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment:

Supplier Comment:

83.15 Elevation:

Elevrc:

18 Zone:

East83: 425810.6 North83: 5024032

Org CS:

UTMRC:

margin of error: 30 m - 100 m **UTMRC Desc:**

Order No: 20190406001

Location Method:

Overburden and Bedrock

Materials Interval

Formation ID: 931025415

Layer: Color:

General Color: **BROWN** Mat1: 05 Most Common Material: **CLAY** Mat2: 79 Other Materials: **PACKED**

Mat3:

Other Materials:

0 Formation Top Depth:

Formation End Depth: 8
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931025417 **Layer:** 3

 Color:
 2

 General Color:
 GREY

 Mat1:
 18

Most Common Material: SANDSTONE

Mat2: 73
Other Materials: HARD

Mat3:

Other Materials:

Formation Top Depth: 44
Formation End Depth: 98
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931025416

 Layer:
 2

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 8
Formation End Depth: 44
Formation End Depth UOM: ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 961514134

Method Construction Code: 5

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

Pipe ID: 10584682

Casing No:

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930063800

Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:

Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch

Casing Depth UOM:

Construction Record - Casing

Casing ID: 930063801

ft

Layer: Material: 4

OPEN HOLE

Open Hole or Material: Depth From:

98 Depth To: 6 Casing Diameter: Casing Diameter UOM: inch Casing Depth UOM: ft

Results of Well Yield Testing

991514134 Pump Test ID:

Pump Set At: Static Level: 9 Final Level After Pumping: 50 60 Recommended Pump Depth: 10 Pumping Rate: Flowing Rate:

5 Recommended Pump Rate: 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 0 **Pumping Duration MIN:** Ν Flowing:

Draw Down & Recovery

Pump Test Detail ID: 934099876 Test Type: Draw Down

Test Duration: 15 50 Test Level: Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934381368 Test Type: Draw Down

30 Test Duration: Test Level: 50 ft Test Level UOM:

Draw Down & Recovery

Pump Test Detail ID: 934899830 Test Type: Draw Down

Test Duration: 60 50 Test Level: Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934642361 Draw Down Test Type:

Map Key Number of Direction/ Elev/Diff Site DB Records Distance (m) (m) Test Duration: 45 50 Test Level: Test Level UOM: ft Water Details Water ID: 933469936 Layer: Kind Code: **FRESH** Kind: Water Found Depth: 96 Water Found Depth UOM: ft 1 of 1 WSW/167.3 89.0 / 10.95 1105 March Rd **EHS** Ottawa ON K2K1X7 Order No: 20131001054 Nearest Intersection: Status: Municipality: Report Type: **Custom Report** Client Prov/State: ON 10-OCT-13 Report Date: Search Radius (km): .25 -75.948913 Date Received: 01-OCT-13 X: Previous Site Name: Y: 45.366745 Lot/Building Size: Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory 5 1 of 1 W/175.0 87.8 / 9.73 Ottawa Catholic District School Board **ECA** 1105 March Rd Ottawa ON K2G 3R4 Approval No: 9832-9YVHAY **MOE District:** Ottawa Approval Date: 2015-09-03 City: Ottawa -75.91098 Status: Approved Longitude: Record Type: **ECA** Latitude: 45.335453 Geometry X: Link Source: IDS SWP Area Name: Geometry Y: Mississippi Valley ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Approval Type: Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Address: 1105 March Rd Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6814-9TKL24-14.pdf 6 1 of 1 NW/176.3 80.9 / 2.80 lot 15 **WWIS** ON Data Entry Status: Well ID: 1531884 Construction Date: Data Src: 5/4/2001 Primary Water Use: Date Received: Domestic Sec. Water Use: Selected Flag: Yes Final Well Status: Water Supply Abandonment Rec: Water Type: Contractor: 6006 Casing Material: Form Version: Audit No: 223381 Owner: Street Name: Tag: OTTAWA-CARLETON Construction Method: County: Elevation (m): Municipality: MARCH TOWNSHIP Elevation Reliability: Site Info: 015 Depth to Bedrock: Lot:

Concession:

Concession Name:

Order No: 20190406001

Easting NAD83:

Northing NAD83:

Well Depth:

Pump Rate:

Overburden/Bedrock:

Static Water Level:

Map Key Number of Direction/ Elev/Diff Site DB

Zone:

Records Distance (m) (m)

Flow Rate: UTM Reliability: Clear/Cloudy:

Bore Hole Information

Flowing (Y/N):

Bore Hole ID: 10053418 Elevation: 78.5

DP2BR: 18 Elevrc: Spatial Status: Improved 18 Zone: Code OB: East83: 426089

Bedrock 5024544 Code OB Desc: North83: Open Hole: Org CS: N83 Cluster Kind: **UTMRC**:

Date Completed: 16-APR-01 **UTMRC Desc:** margin of error: 10 - 30 m

Remarks: Location Method:

Elevrc Desc:

Location Source Date:

1999-2004 MOE Water Well Data Improvement Project Improvement Location Source:

GIS10000 Improvement Location Method:

Northing and/or Easting field has been changed. Reasonably sure well location matches sketch map (similar Source Revision Comment:

features).approx using road names

Accuracy was not specified from source. Within 20m horizontal accuracy assumed as worst case using GIS at a Supplier Comment:

Order No: 20190406001

scale of 1:10000.

Overburden and Bedrock

Materials Interval

931079812 Formation ID:

Layer: Color: 6 General Color: **BROWN** Mat1: 05 Most Common Material: CLAY Mat2: 28 Other Materials: SAND 85 Mat3: Other Materials: SOFT 0 Formation Top Depth: Formation End Depth: 12

ft Formation End Depth UOM:

Overburden and Bedrock

Materials Interval

931079813 Formation ID:

Layer: Color: 6 **BROWN**

General Color: Mat1: 05 Most Common Material: **CLAY** Mat2: 85 SOFT

Other Materials: Mat3:

Other Materials:

12 Formation Top Depth: Formation End Depth: 18 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

931079814 Formation ID:

 Layer:
 3

 Color:
 2

 General Color:
 GREY

 Mat1:
 16

 Most Common Material:
 DOLOMITE

 Mat2:
 73

 Other Materials:
 HARD

Mat3:

Other Materials:

Formation Top Depth: 18
Formation End Depth: 100
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

 Plug ID:
 933117019

 Layer:
 1

 Plug From:
 0

 Plug To:
 20

ft

Plug Depth UOM:

Method of Construction & Well

<u>Use</u>

Method Construction ID:961531884Method Construction Code:4Method Construction:Rotary (Air)

Other Method Construction:

Pipe Information

 Pipe ID:
 10601988

 Casing No:
 1

Comment: Alt Name:

Construction Record - Casing

 Casing ID:
 930093618

 Layer:
 2

Material: 2

Open Hole or Material: OPEN HOLE

Depth From: Depth To:

Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930093617

Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From: Depth To:

Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991531884

Pump Set At:

Static Level: 8 50 Final Level After Pumping: Recommended Pump Depth: 90 Pumping Rate: 50 Flowing Rate:

Recommended Pump Rate: 15 Levels UOM: ft Rate UOM: **GPM** Water State After Test Code: **CLEAR** Water State After Test: Pumping Test Method: **Pumping Duration HR:** 1

Pumping Duration MIN:

Ν Flowing:

Draw Down & Recovery

934915544 Pump Test Detail ID: Test Type: Recovery Test Duration: 60 Test Level: 8 ft Test Level UOM:

Draw Down & Recovery

Pump Test Detail ID: 934114658 Test Type: Recovery Test Duration: 15 50 Test Level: Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934659211 Test Type: Recovery Test Duration: 45 8 Test Level: Test Level UOM: ft

Draw Down & Recovery

934398830 Pump Test Detail ID: Test Type: Recovery Test Duration: 30 Test Level: 50 ft Test Level UOM:

Water Details

Water ID: 933492493 Layer: Kind Code: 1

Kind: **FRESH** Water Found Depth: 35 Water Found Depth UOM: ft

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

7 1 of 1 W/179.2 86.9 / 8.80 Golden Windows Limited

1112 March Rd Kanata ON K2W 1B9 SCT

Order No: 20190406001

Established: 01-AUG-61
Plant Size (ft²): 1200
Employment:

--Details--

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors

SIC/NAICS Code: 416390

Description: Lumber, Plywood and Millwork Wholesaler-Distributors

SIC/NAICS Code: 416320

8 1 of 1 NNW/207.1 75.8/-2.29 lot 27 ON WWIS

Well ID: 1532829 Data Entry Status:

Construction Date: Data Src:

 Primary Water Use:
 Domestic
 Date Received:
 6/6/2002

 Sec. Water Use:
 Selected Flag:
 Yes

 Final Well Status:
 Water Supply
 Abandonment Rec:

Water Type: Contractor: 6006
Casing Material: Form Version: 1
Audit No: 237314 Owner:

Tag: Street Name:

Construction Method:County:OTTAWA-CARLETONElevation (m):Municipality:MARCH TOWNSHIP

Elevation Reliability: Site Info:
Depth to Bedrock: Lot: 027

Well Depth: Concession:
Overburden/Bedrock: Concession Name:
Pump Rate: Easting NAD83:
Static Water Level: Northing NAD83:
Flowing (Y/N): Zone:

Flowing (Y/N): Zone:
Flow Rate: UTM Reliability:
Clear/Cloudy:

Bore Hole Information

 Bore Hole ID:
 10523957
 Elevation:
 71.97

 DP2BR:
 2
 Elevrc:

 Spatial Status:
 Improved
 Zone:
 18

 Code OB:
 r
 East83:
 426329

 Code OB Desc:
 Bedrock
 North83:
 5024798

 Open Hole:
 Org CS:
 N83

Cluster Kind: UTMRC: 3

Date Completed: 24-APR-02 UTMRC Desc: margin of error: 10 - 30 m

Remarks: Location Method:

Elevro Desc:

Location Source Date:

Improvement Location Source: 1999-2004 MOE Water Well Data Improvement Project

Improvement Location Method: GIS10000

Source Revision Comment: Northing and/or Easting field has been changed. Reasonably sure well location matches sketch map (similar

features).well only moved close to given RD name

Supplier Comment: Accuracy was not specified from source. Within 20m horizontal accuracy assumed as worst case using GIS at a

scale of 1:10000.

Overburden and Bedrock

Materials Interval

 Formation ID:
 932857859

 Layer:
 2

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2: 73
Other Materials: HARD

Mat3:

Other Materials:
Formation Top Depth: 2
Formation End Depth: 80

Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932857858

Layer: 1 Color: 6

General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 13

Other Materials:BOULDERSMat3:85Other Materials:SOFTFormation Top Depth:0Formation End Depth:2

ft

Formation End Depth:
Formation End Depth UOM:

Overburden and Bedrock

Materials Interval

 Formation ID:
 932857860

 Layer:
 3

 Color:
 1

General Color: WHITE
Mat1: 21
Most Common Material: GRANITE
Mat2: 73
Other Materials: HARD

Mat3:

Other Materials:

Formation Top Depth: 80
Formation End Depth: 203
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

 Plug ID:
 933225467

 Layer:
 1

 Plug From:
 0

 Plug To:
 20

 Plug Depth UOM:
 ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 961532829

Method Construction Code: 4

Method Construction:

Rotary (Air)

Other Method Construction:

Pipe Information

Pipe ID: 11072527 Casing No:

Comment: Alt Name:

Construction Record - Casing

930095671 Casing ID:

Layer: Material:

STEEL Open Hole or Material:

Depth From: Depth To:

Casing Diameter: 6 Casing Diameter UOM: inch Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930095672 Layer: 2

Material:

Open Hole or Material: **OPEN HOLE**

Depth From: Depth To:

Casing Diameter: 6 Casing Diameter UOM: inch Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991532829

Pump Set At:

20 Static Level: Final Level After Pumping: 200 Recommended Pump Depth: 200 Pumping Rate:

Flowing Rate:

Recommended Pump Rate: 6 Levels UOM: ft Rate UOM: GPM Water State After Test Code: **CLEAR** Water State After Test: Pumping Test Method: 2 **Pumping Duration HR:** 0 **Pumping Duration MIN:** Ν Flowing:

Draw Down & Recovery

Pump Test Detail ID: 934117991 Recovery Test Type: Test Duration: 15 Test Level: 110 Test Level UOM: ft

Order No: 20190406001

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Draw Down	& Recovery					
Pump Test E Test Type: Test Duratio Test Level: Test Level U	n:	934662544 Recovery 45 20 ft				
<u>Draw Down (</u>	& Recovery					
Pump Test D Test Type: Test Duratio Test Level: Test Level U	n:	934401603 Recovery 30 70 ft				
<u>Draw Down</u>	& Recovery					
Pump Test D Test Type: Test Duration Test Level: Test Level U	n:	934919427 Recovery 60 20 ft				
Water Details	<u>3</u>					
Water ID: Layer: Kind Code: Kind: Water Found Water Found	Depth: Depth UOM:	934016544 1 1 FRESH 80 ft				
Water Details	<u>s</u>					
Water ID: Layer: Kind Code: Kind: Water Found Water Found	Depth: Depth UOM:	934016545 2 1 FRESH 162 ft				
<u>9</u>	1 of 1	SW/218.7	85.8 / 7.76	ON		BORE
Borehole ID: Use: Drill Method: Easting: Location Acc Elev. Reliabi Total Depth I Township: Lot: Completion I	42586: curacy: lity Note: n: -999			Type: Status: UTM Zone: Northing: Orig. Ground Elev m: DEM Ground Elev m: Primary Name: Concession: Municipality: Static Water Level:	Borehole 18 5023762 82.3 83.2	

Sec. Water Use:

Primary Water Use:

--Details--Stratum ID: Top Depth(m): Stratum Desc: 218384210 0.0 CLAY. Bottom Depth(m): 3.0

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Stratum ID: Bottom Depti	h(m):	218384211			Top Depth(m): Stratum Desc:	3.0 BEDROCK. WATER STABLE AT 269. FEET.WATER STABLE AT 233.0 FEE BEDROCK. SEISMIC VELOCITY =	
10	1 of 1		S/241.0	81.0 / 2.88	ON		BORE
Borehole ID: Use: Drill Method: Easting: Location Acc Elev. Reliabil. Total Depth n Township: Lot: Completion E Primary Wate	curacy: lity Note: n: Oate:	609835 426321 -999			Type: Status: UTM Zone: Northing: Orig. Ground Elev m: DEM Ground Elev m: Primary Name: Concession: Municipality: Static Water Level: Sec. Water Use:	Borehole 18 5023602 79.2 79.2 8.2	
Details Stratum ID: Bottom Depti	h(m):	218384205 2.7			Top Depth(m): Stratum Desc:	0.0 TILL.	
Stratum ID: Bottom Depti	h(m):	218384206 12.2			Top Depth(m): Stratum Desc:	2.7 BEDROCK,SANDSTONE.	

Top Depth(m): Stratum Desc:

BEDROCK, GRANITE. WATER STABLE AT 233.0 FEET. BEDROCK. SEISMIC VELOCITY

Order No: 20190406001

= 15000. STONE. BL

Stratum ID:

Bottom Depth(m):

218384207

Unplottable Summary

Total: 19 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	City of Ottawa	Lot 13	Ottawa ON	
CA	Kinross Court	Part of Lot 13, Concession	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	MARCH ROAD RECON., SWM FAC.	KANATA CITY ON	
CA	West Carleton Sand & Gravel Inc.	Part of Lots 11 and 12, Concession 4	Ottawa ON	
EBR	Laurent Leblanc Ltd.,	Watson Road, Lot 13, Concession 4, formerly the Township of Cumberland (geographic township). CITY OF OTTAWA	ON	
EBR	Marcel Brazeau Ltd.	Geographic Township of Nepean Part Lot 12, Concession 4 Rideau Front CITY OF OTTAWA	ON	
PTTW	West Carleton Sand & Gravel	Lots 11 and 12, Concession 4 CITY OF OTTAWA	ON	
SPL	ONTARIO HYDRO	SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER	KANATA CITY ON	
wwis		lot 12	ON	
WWIS		lot 13	ON	
wwis		con 4	ON	
wwis		lot 13	ON	
wwis		lot 12	ON	
wwis		lot 12	ON	
wwis		lot 13	ON	
wwis		lot 12	ON	
WWIS		lot 12	ON	

WWIS lot 12 ON

WWIS lot 13 ON

Unplottable Report

Site: City of Ottawa

Lot 13 Ottawa ON

Database:

Certificate #:

3399-6BVHAA

Application Year: Issue Date: 2005 6/10/2005

Approval Type:

/10/200 :..

Status:

Air Approved

Application Type: Client Name: Client Address: Client City: , 400.01

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

Site: Kinross Court

Part of Lot 13, Concession Ottawa ON

Database:

Certificate #:
Application Year:

0660-53CRDY

Application Year: Issue Date: 01 10/11/01

Approval Type:

Municipal & Private sewage

Status:

Approved

Application Type:

New Certificate of Approval

Client Name: Client Address: Tenth Line Development Inc. 210 Gladstone Avenue, Suite 2001

Client City:

Ottawa

Client Postal Code:

K2P 0Y6

Project Description:

Storm sewer construction.

Contaminants: Emission Control:

Site: R.M. OF OTTAWA-CARLETON

MARCH ROAD RECON., SWM FAC. KANATA CITY ON

Database:

Certificate #: Application Year: 3-0372-96-96

Issue Date: Approval Type: 6/20/1996

Status:

Municipal sewage Approved

Application Type: Client Name:

Client Address:

Client City: Client Postal Code: Project Description:

Contaminants: Emission Control:

Site: West Carleton Sand & Gravel Inc.

Part of Lots 11 and 12, Concession 4 Ottawa ON

Database:

Certificate #:

5875-6BDFW7

 Application Year:
 2006

 Issue Date:
 4/28/2006

Approval Type: Industrial Sewage Works

Status: Approved Application Type:

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

Site: Laurent Leblanc Ltd.,

Watson Road, Lot 13, Concession 4, formerly the Township of Cumberland (geographic township). CITY OF

Database:

EBR

Database:

EBR

Database:

Order No: 20190406001

OTTAWA ON

 EBR Registry No:
 IB06E2033
 Proposal Date:
 May 01, 2006

 Ministry Ref. No:
 FSD KEM 02/06
 Notice Pub Date:
 March 22, 2016

 Notice Type:
 Instrument Decision
 Year:
 2006

Company Name: Laurent Leblanc Ltd.,

Proponent Name:

Proponent Address: 3000 Navan Road, Gloucester Ontario, K1C 7G4

Instrument Type: (ARA s. 13 (2)) - Add, rescind, or vary a condition of a licence

Location Other:

URL:

Location:

Watson Road, Lot 13, Concession 4, formerly the Township of Cumberland (geographic township). CITY OF OTTAWA

Site: Marcel Brazeau Ltd.

Geographic Township of Nepean Part Lot 12, Concession 4 Rideau Front CITY OF OTTAWA ON

 EBR Registry No:
 012-7185
 Proposal Date:
 March 29, 2016

 Ministry Ref. No:
 MNRF INST 28/16
 Notice Pub Date:
 October 26, 2017

Notice Type: Instrument Decision Year: 2016

Company Name: Marcel Brazeau Ltd.

Proponent Name:

Proponent Address: 130 Entreprise Road, Vars Ontario, Canada K0A 3H0

Instrument Type: (ARA s. 16 (2)) - Approval of licensee proposed amendment to a site plan

Location Other:

URL:

Location:

Geographic Township of Nepean Part Lot 12, Concession 4 Rideau Front CITY OF OTTAWA

Site: West Carleton Sand & Gravel

Lots 11 and 12, Concession 4 CITY OF OTTAWA ON

 EBR Registry No:
 IA05E0281
 Proposal Date:
 March 07, 2005

 Ministry Ref. No:
 ER-2284-69WM7D
 Notice Date:
 June 03, 2005

 Notice Type:
 Instrument Decision
 Year:
 2005

Notice Type: Instrument Decision
Company Name: West Carleton Sand & Gravel

Proponent Name:

Proponent Address: 3725 Carp Road, P.O Box 264, Carp Ontario, K0A 1L0

Instrument Type: (OWRA s. 34) - Permit to Take Water

Location Other:

URL:

Location:

ONTARIO HYDRO Site:

SOUTH MARCH TRANSFORMER STATION, MARCH ROAD TRANSFORMER KANATA CITY ON

Database:

Order No: 20190406001

128700 Discharger Report: Ref No:

Site No: Material Group: Incident Dt: 6/26/1996 Health/Env Conseq:

Client Type: Year: Incident Cause: COOLING SYSTEM LEAK Sector Type:

Incident Event: Agency Involved: Contaminant Code: Nearest Watercourse: 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: 20103

Nature of Impact: Site Lot: Soil contamination Receiving Medium: LAND Site Conc: Receiving Env: Northing:

MOE Response: Easting: **EPS**

Dt MOE Arvl on Scn: Site Geo Ref Accu: MOE Reported Dt: 7/3/1996 Site Map Datum: **Dt Document Closed:** SAC Action Class: OTHER Source Type:

Incident Reason: Site Name:

lot 12 ON

Site Geo Ref Meth: Incident Summary: ONTARIO HYDRO: 250 ML OF PCB OIL (200 PPM) TO SOILCONTAINED AND CLEANED UP.

Contaminant Qty:

Site County/District:

Database: Site:

Well ID: 1526856 Data Entry Status:

Construction Date: Data Src:

10/20/1992 Primary Water Use: Domestic Date Received: Sec. Water Use: Yes

Selected Flag:

Water Supply Final Well Status: Abandonment Rec:

Water Type: Contractor: 3323 Casing Material: Form Version:

Audit No: NA Owner: Tag: Street Name:

Construction Method: County: **OTTAWA-CARLETON** Elevation (m): Municipality: MARCH TOWNSHIP

Elevation Reliability: Site Info: 012 Lot:

Depth to Bedrock:

Well Depth: Concession: Overburden/Bedrock: Concession Name: Pump Rate: Easting NAD83: Static Water Level: Northing NAD83:

Flowing (Y/N): Zone:

Flow Rate: UTM Reliability:

Clear/Cloudy:

Bore Hole Information

Bore Hole ID: 10048544 Elevation: DP2BR: 0 Elevrc:

Spatial Status: Zone: 18

Code OB: East83: Bedrock Code OB Desc: North83: Org CS: Open Hole:

Cluster Kind:

Date Completed: 11-JUL-86

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock

Materials Interval

931065364 Formation ID: Layer: Color:

General Color: **RED** 21 Mat1: **GRANITE**

Most Common Material:

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 0 Formation End Depth: 23 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931065365

Layer: 2 Color: **GREY** General Color: Mat1: 21 Most Common Material: GRANITE

Mat2:

Other Materials:

Mat3:

Other Materials:

23 Formation Top Depth: 100 Formation End Depth: Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

931065366 Formation ID:

Layer: 3 Color: 2 **GREY** General Color: Mat1: 21 Most Common Material: **GRANITE**

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 100 Formation End Depth: 125 Formation End Depth UOM:

Annular Space/Abandonment

Sealing Record

Plug ID: 933112000 **UTMRC**:

UTMRC Desc: unknown UTM

Order No: 20190406001

Location Method: na Layer: 0 Plug From: Plug To: 20 Plug Depth UOM: ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 961526856 Method Construction Code: Method Construction: Air Percussion

Other Method Construction:

Pipe Information

10597114 Pipe ID: Casing No: Comment:

Alt Name:

Construction Record - Casing

Casing ID: 930084996

Layer: 3 Material:

Open Hole or Material: **OPEN HOLE**

Depth From: Depth To:

6 Casing Diameter: Casing Diameter UOM: inch Casing Depth UOM: ft

Construction Record - Casing

930084995 Casing ID:

Layer: Material: **STEEL** Open Hole or Material:

Depth From: 21

Depth To: Casing Diameter: 6 Casing Diameter UOM: inch Casing Depth UOM:

Results of Well Yield Testing

Pump Test ID: 991526856

Pump Set At:

Static Level: 12 Final Level After Pumping: 50 90 Recommended Pump Depth: Pumping Rate: 10 Flowing Rate:

Recommended Pump Rate: 10 Levels UOM: ft GPM Rate UOM: Water State After Test Code: **CLEAR** Water State After Test: Pumping Test Method: 1

Pumping Duration HR: 4 Pumping Duration MIN:

Ν Flowing:

Draw Down & Recovery

934109020 Pump Test Detail ID:

Test Type: Test Duration: 15 Test Level: 12 Test Level UOM: ft

Draw Down & Recovery

934910358 Pump Test Detail ID:

Test Type: 60 Test Duration: Test Level: 12 Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934392654

Test Type:

Test Duration: 30 12 Test Level: Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934653167

Test Type:

Test Duration: 45 Test Level: 12 Test Level UOM: ft

Water Details

933486306 Water ID:

Layer: Kind Code:

FRESH Kind: Water Found Depth: 120 Water Found Depth UOM: ft

Site: Database: lot 13 ON

Data Entry Status:

Abandonment Rec:

Selected Flag:

Form Version:

Contractor:

Owner: Street Name:

County:

6/25/2001

OTTAWA-CARLETON

Order No: 20190406001

MARCH TOWNSHIP

Yes

3323

013

1

Well ID: 1532009

Construction Date: Data Src: Date Received:

Primary Water Use: Domestic Sec. Water Use:

Final Well Status: Water Supply

Water Type:

Casing Material:

Audit No: 223507 Tag:

Construction Method:

Municipality: Elevation (m): Elevation Reliability: Site Info: Depth to Bedrock: Lot:

Well Depth: Concession: Overburden/Bedrock: Concession Name:

Easting NAD83: Pump Rate: Static Water Level: Northing NAD83: Flowing (Y/N): Zone:

Flow Rate: UTM Reliability: Clear/Cloudy:

Bore Hole Information

Bore Hole ID: 10053542 **DP2BR:** 13

Spatial Status: Code OB:

Code OB Desc: Bedrock

Open Hole: Cluster Kind:

Date Completed: 13-JUN-01

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock

Materials Interval

Formation ID: 931080182

 Layer:
 2

 Color:
 2

 General Color:
 GREY

 Mat1:
 18

Most Common Material: SANDSTONE

Mat2:

Other Materials: Mat3: Other Materials:

Formation Top Depth: 13
Formation End Depth: 150
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931080181

 Layer:
 1

 Color:
 2

 General Color:
 GREY

 Mat1:
 05

 Most Common Material:
 CLAY

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 0
Formation End Depth: 13
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933117136

 Layer:
 1

 Plug From:
 0

 Plug To:
 22

 Plug Depth UOM:
 ft

Method of Construction & Well

Use

Method Construction ID: 961532009

Elevation:

Elevrc: Zone: 18

East83: North83: Org CS:

UTMRC: 9

UTMRC Desc: unknown UTM

Location Method: na

Method Construction Code: 5

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

 Pipe ID:
 10602112

 Casing No:
 1

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930093909

Layer: 1
Material: 1

Open Hole or Material: STEEL Depth From:

Depth To:

Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991532009

Pump Set At:

Static Level: 8
Final Level After Pumping: 50
Recommended Pump Depth: 30
Pumping Rate: 50
Flowing Rate:

Recommended Pump Rate: 50
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR

Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

N

Draw Down & Recovery

 Pump Test Detail ID:
 934659319

 Test Type:
 Recovery

 Test Duration:
 45

 Test Level:
 8

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934115183

 Test Type:
 Recovery

 Test Duration:
 15

 Test Level:
 25

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934398243

 Test Type:
 Recovery

 Test Duration:
 30

 Test Level:
 10

Test Level UOM: ft

Draw Down & Recovery

 Pump Test Detail ID:
 934916624

 Test Type:
 Recovery

 Test Duration:
 60

 Test Level:
 8

 Test Level UOM:
 ft

Water Details

Water ID: 933492689

Layer: 1
Kind Code: 5

Kind: Not stated
Water Found Depth: 45
Water Found Depth UOM: ft

Site: Database: WWIS

Well ID: 1530124 Data Entry Status:

Construction Date: Data Src:

Primary Water Use:DomesticDate Received:8/14/1998Sec. Water Use:Selected Flag:Yes

Sec. Water Use:

Final Well Status: Water Supply

Selected Flag:

Abandonment Rec:

Water Type: Contractor: 1558

Casing Material: Form Version: 1
Audit No: 194690 Owner:

Tag: Street Name:

Construction Method:County:OTTAWA-CARLETONElevation (m):Municipality:MARCH TOWNSHIP

Elevation Reliability: Site Info:
Depth to Bedrock: Lot:

Well Depth: Concession: 04

Overburden/Bedrock:Concession Name:CONPump Rate:Easting NAD83:

Static Water Level: Northing NAD83:

Flowing (Y/N): Zone:

Flow Rate: UTM Reliability: Clear/Cloudy:

Bore Hole Information

 Bore Hole ID:
 10051659
 Elevation:

 DP2BR:
 23
 Elevrc:

 Spatial Status:
 Zone:

 Spatial Status:
 Zone:
 18

 Code OB:
 r
 East83:

 Code OB Desc:
 Bedrock
 North83:

 Open Hole:
 Org CS:

 Cluster Kind:
 UTMRC:
 9

Date Completed: 23-JUL-98 UTMRC Desc: unknown UTM

Order No: 20190406001

Remarks: Location Method: na

Elevrc Desc:
Location Source Date:

Overburden and Bedrock

Materials Interval

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Formation ID: 931074585

Layer: 5 Color: General Color: WHITE Mat1: 18

SANDSTONE Most Common Material:

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 95 105 Formation End Depth: ft Formation End Depth UOM:

Overburden and Bedrock

Materials Interval

Formation ID: 931074581

Layer: Color: 6 **BROWN** General Color: Mat1: 28 Most Common Material: SAND Mat2: 01

FILL

Mat3:

Other Materials: Other Materials:

Formation Top Depth: 0 Formation End Depth: 4 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931074584

Layer: 2 Color: **GREY** General Color: Mat1: 15

LIMESTONE Most Common Material:

Mat2:

Other Materials:

Mat3:

Other Materials:

23 Formation Top Depth: Formation End Depth: 95 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

931074583 Formation ID:

Layer: 3 Color: 2 General Color: **GREY** Mat1: 05 Most Common Material: CLAY

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 17 Formation End Depth: 23 Formation End Depth UOM:

Overburden and Bedrock

Materials Interval

Formation ID: 931074582

 Layer:
 2

 Color:
 6

 General Color:
 BROWN

 Mat1:
 05

 Most Common Material:
 CLAY

 Mat2:
 79

 Other Materials:
 PACKED

Mat3:

Other Materials:

Formation Top Depth: 4
Formation End Depth: 17
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933115250

 Layer:
 1

 Plug From:
 26

 Plug To:
 0

 Plug Depth UOM:
 ft

Method of Construction & Well

<u>Use</u>

Method Construction ID:961530124Method Construction Code:5Method Construction:Air Percussion

Other Method Construction:

Pipe Information

 Pipe ID:
 10600229

 Casing No:
 1

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930090016

Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:
Depth To: 26

Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930090017

Layer: 2

Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To:105Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

Results of Well Yield Testing

Pump Test ID: 991530124

Pump Set At:
Static Level: 23
Final Level After Pumping: 100
Recommended Pump Depth: 85
Pumping Rate: 12

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 Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

 Pump Test Detail ID:
 934392307

 Test Type:
 Recovery

 Test Duration:
 30

 Test Level:
 23

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934117747

 Test Type:
 Recovery

 Test Duration:
 15

 Test Level:
 25

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934661882

 Test Type:
 Recovery

 Test Duration:
 45

 Test Level:
 23

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934910424

 Test Type:
 Recovery

 Test Duration:
 60

 Test Level:
 23

 Test Level UOM:
 ft

Water Details

Water ID: 933490175

Layer: 1 Kind Code: 5

Kind: Not stated
Water Found Depth: 40
Water Found Depth UOM: ft

Water Details

Water ID: 933490176

Layer:

Kind Code: 5

Kind: Not stated
Water Found Depth: 93
Water Found Depth UOM: ft

Site: Database: WWIS

Well ID: 1520666

Construction Date:

Primary Water Use: Domestic

Sec. Water Use:

Final Well Status: Water Supply

Water Type: Casing Material:

Audit No: NA

Tag:

Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock:

Well Depth:

Overburden/Bedrock: Pump Rate:

Static Water Level: Flowing (Y/N):

Flow Rate: Clear/Cloudy: Data Entry Status:

Data Src:

Date Received: 8/8/1986 Selected Flag: Yes

Abandonment Rec:

Contractor: 1517
Form Version: 1

Owner: Street Name:

County: OTTAWA-CARLETON Municipality: OTTAWA CITY

013

Site Info:

Concession: Concession Name: Easting NAD83: Northing NAD83:

Zone:

Lot:

UTM Reliability:

Bore Hole Information

Bore Hole ID: 10042508

DP2BR: 0

Spatial Status: Code OB:

Code OB Desc: Bedrock

Open Hole:

Cluster Kind:

Date Completed: 17-JUL-86

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:

UTMRC Desc: unknown UTM

Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931045467

 Layer:
 1

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 0
Formation End Depth: 75
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

933109179 Plug ID:

Layer: Plug From: 0 30 Plug To: Plug Depth UOM:

Method of Construction & Well

961520666 Method Construction ID:

Method Construction Code:

Method Construction: Cable Tool

Other Method Construction:

Pipe Information

Pipe ID: 10591078

Casing No: Comment:

Alt Name:

Construction Record - Casing

930074202 Casing ID:

Layer: Material: Open Hole or Material: **STEEL**

Depth From: Depth To: 30 Casing Diameter: 6 Casing Diameter UOM: inch Casing Depth UOM:

Results of Well Yield Testing

Pump Test ID: 991520666

Pump Set At: Static Level: 1 Final Level After Pumping: 40 60 Recommended Pump Depth: 20 Pumping Rate: Flowing Rate:

Recommended Pump Rate: 70 Levels UOM:

GPM Rate UOM:

Water State After Test Code: Water State After Test: Pumping Test Method:

2 **Pumping Duration HR:** 1 **Pumping Duration MIN:** 0 Flowing: Ν

Draw Down & Recovery

Pump Test Detail ID: 934112552

Test Type: 15 Test Duration: Test Level: 20 Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934387835

Test Type:

 Test Duration:
 30

 Test Level:
 30

 Test Level UOM:
 ft

Draw Down & Recovery

Pump Test Detail ID: 934648438

Test Type:

 Test Duration:
 45

 Test Level:
 35

 Test Level UOM:
 ft

Draw Down & Recovery

Pump Test Detail ID: 934907199

Test Type:

 Test Duration:
 60

 Test Level:
 40

 Test Level UOM:
 ft

Water Details

Water ID: 933477982

Layer: 1
Kind Code: 1

Kind: FRESH
Water Found Depth: 72
Water Found Depth UOM: ft

Site:

lot 12 ON

Database:

WWIS

UTM Reliability:

Order No: 20190406001

Well ID: 1535508 Data Entry Status:

 Construction Date:
 Data Src:

 Primary Water Use:
 Date Received:
 5/28/2005

 Sec. Water Use:
 Selected Flag:
 Yes

Final Well Status:

Abandonment Rec:

Water Type: Contractor: 6907
Casing Material: Form Version: 3

Audit No: Z17642 Form Version: 3

Owner:

Tag: Street Name: Construction Method: County:

Construction Method:County:OTTAWA-CARLETONElevation (m):Municipality:OTTAWA CITYElevation Reliability:Site Info:

Depth to Bedrock: Lot: 012

Well Depth: Concession:

Overburden/Bedrock: Concession Name:

Pump Rate: Easting NAD83:

Continuous NAD83:

Static Water Level: Northing NAD83: Flowing (Y/N): Zone:

Flow Rate: Clear/Cloudy:

Bore Hole Information

Bore Hole ID: 11316047 Elevation: DP2BR: Elevrc:

Spatial Status:Zone:Code OB:_East83:Code OB Desc:No formation dataNorth83:

Open Hole: Org CS:
Cluster Kind: UTMRC:
Date Completed: 10-MAY-05 UTMRC De

Date Completed:10-MAY-05UTMRC Desc:Remarks:Location Method:na

Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment:

Supplier Comment:

Method of Construction & Well

<u>Use</u>

961535508 Method Construction ID:

Method Construction Code: Method Construction:

Other Method

Other Method Construction:

Pipe Information

Pipe ID: 11330902 1

Casing No: Comment: Alt Name:

Site:

Database: **WWIS** lot 12 ON

Well ID: 1528869

Construction Date: Primary Water Use: Domestic

Sec. Water Use:

Water Supply Final Well Status:

Water Type: Casing Material:

Audit No: 153051

Tag: Construction Method:

Elevation (m): Elevation Reliability: Depth to Bedrock:

Well Depth: Overburden/Bedrock:

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

Clear/Cloudy:

Data Entry Status:

Data Src:

Date Received: 2/16/1996 Selected Flag: Yes

Abandonment Rec:

Contractor: 3323 Form Version:

Owner: Street Name:

OTTAWA-CARLETON County: MARCH TOWNSHIP Municipality: Site Info:

Lot: 012

Concession: Concession Name: Easting NAD83: Northing NAD83:

Zone:

UTM Reliability:

Bore Hole Information

Bore Hole ID: 10050405

DP2BR:

Spatial Status: Code OB:

Code OB Desc: **Bedrock**

Open Hole:

Cluster Kind:

Date Completed: 23-JAN-96

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:

UTMRC Desc: unknown UTM

Order No: 20190406001

Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931071062

 Layer:
 3

 Color:
 7

 General Color:
 RED

 Mat1:
 21

 Most Common Material:
 GRANITE

Mat2:

Other Materials: Mat3:

Other Materials:

Formation Top Depth: 65
Formation End Depth: 100
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

 Formation ID:
 931071061

 Layer:
 2

 Color:
 2

 General Color:
 GREY

 Mat1:
 18

Most Common Material: SANDSTONE

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 7
Formation End Depth: 65
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931071060

 Layer:
 1

 Color:
 2

 General Color:
 GREY

 Mat1:
 05

 Most Common Material:
 CLAY

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 0
Formation End Depth: 7
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

 Plug ID:
 933113831

 Layer:
 1

Plug From: 7
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 961528869

Method Construction Code: 5

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

Pipe ID: 10598975

Casing No: 1

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930088091

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: 991528869

Pump Set At:

Static Level: 4 Final Level After Pumping: 100 Recommended Pump Depth: 60 15 Pumping Rate: Flowing Rate: Recommended Pump Rate: 12 Levels UOM: ft GPM Rate UOM: Water State After Test Code: Water State After Test: **CLEAR** Pumping Test Method: 1 Pumping Duration HR: 1 **Pumping Duration MIN:** 0 Flowing: Ν

Draw Down & Recovery

 Pump Test Detail ID:
 934389378

 Test Type:
 Recovery

 Test Duration:
 30

 Test Level:
 8

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934658553

 Test Type:
 Recovery

 Test Duration:
 45

 Test Level:
 6

 Test Level UOM:
 ft

Draw Down & Recovery

 Pump Test Detail ID:
 934907078

 Test Type:
 Recovery

 Test Duration:
 60

 Test Level:
 4

 Test Level UOM:
 ft

Draw Down & Recovery

Pump Test Detail ID: 934105753 Test Type: Recovery Test Duration: 15 Test Level: 22 Test Level UOM: ft

Water Details

Water ID: 933488751

Layer: Kind Code: 5

Not stated Kind: Water Found Depth: 40 Water Found Depth UOM: ft

Water Details

Water ID: 933488752

Layer: 2 Kind Code: 5

Kind: Not stated Water Found Depth: 90 Water Found Depth UOM: ft

Database: Site: lot 13 ON

Well ID: 1533886 Data Entry Status:

Construction Date: Data Src:

7/9/2003 Domestic Primary Water Use: Date Received: Sec. Water Use: Selected Flag: Yes Final Well Status: Water Supply Abandonment Rec:

6006 Water Type: Contractor: Casing Material: Form Version:

Audit No: 251165 Owner: Street Name:

Tag: Construction Method: County:

OTTAWA-CARLETON MARCH TOWNSHIP Elevation (m): Municipality: Elevation Reliability: Site Info:

Depth to Bedrock: Lot: 013

Well Depth: Concession: Overburden/Bedrock: Concession Name: Pump Rate: Easting NAD83: Northing NAD83: Static Water Level:

Flowing (Y/N): Zone: Flow Rate: UTM Reliability:

Bore Hole Information

Improvement Location Source:

Clear/Cloudy:

Bore Hole ID: 10543001 Elevation: DP2BR: Elevrc:

Spatial Status: Zone: 18 Code OB: East83:

Code OB Desc: Bedrock North83: Open Hole: Org CS: Cluster Kind: **UTMRC:**

Date Completed: 12-JUN-03 UTMRC Desc: unknown UTM

Order No: 20190406001

Remarks: Location Method: na

Elevrc Desc: Location Source Date:

Source Revision Comment: Supplier Comment:

Overburden and Bedrock

Materials Interval

Formation ID: 932924510

Layer: 1

Color: 6

General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 13

Other Materials: BOULDERS

Mat3:77Other Materials:LOOSEFormation Top Depth:0Formation End Depth:5Formation End Depth UOM:ft

Overburden and Bedrock

Materials Interval

Formation ID: 932924511

 Layer:
 2

 Color:
 2

 General Color:
 GREY

 Mat1:
 18

Most Common Material: SANDSTONE

Mat2: 73

Other Materials: HARD

Mat3:

Other Materials:

Formation Top Depth: 5
Formation End Depth: 125
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933240785

 Layer:
 1

 Plug From:
 0

 Plug To:
 20

 Plug Depth UOM:
 ft

Method of Construction & Well

Use

Method Construction ID: 961533886

Method Construction Code: 4

Method Construction: Rotary (Air)

Other Method Construction:

Pipe Information

Pipe ID: 11091571

Casing No:

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930097799

Layer: Material:

Open Hole or Material: STEEL

Depth From: Depth To:

Casing Diameter: 6 Casing Diameter UOM: inch Casing Depth UOM:

Construction Record - Casing

930097800 Casing ID:

Layer: Material:

OPEN HOLE Open Hole or Material:

Depth From: Depth To:

Casing Diameter: Casing Diameter UOM: inch Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991533886

Pump Set At:

Static Level: 17 Final Level After Pumping: 125 Recommended Pump Depth: 120 Pumping Rate: 10

Flowing Rate:

Recommended Pump Rate: 8 Levels UOM: ft Rate UOM: **GPM** Water State After Test Code: Water State After Test: **CLEAR** Pumping Test Method: 2 **Pumping Duration HR:** 1 0 **Pumping Duration MIN:** Ν Flowing:

Draw Down & Recovery

Pump Test Detail ID: 934113021 Draw Down Test Type:

Test Duration: 15 60 Test Level: Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934656595 Test Type: Draw Down Test Duration: 45 Test Level: 125

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934396635 Test Type: Draw Down 30 Test Duration: 100 Test Level: ft Test Level UOM:

Draw Down & Recovery

Pump Test Detail ID:934914042Test Type:Draw Down

Test Duration: 60
Test Level: 125
Test Level UOM: ft

Water Details

Water ID: 934036702

 Layer:
 2

 Kind Code:
 1

 Kind:
 FRESH

 Water Found Depth:
 84

 Water Found Depth UOM:
 ft

Water Details

Water ID: 934036701

Layer: 1
Kind Code: 1

Kind: FRESH
Water Found Depth: 35
Water Found Depth UOM: ft

Site:

lot 12 ON

Database:

WWIS

Well ID: 1525536 Construction Date:

Primary Water Use: Domestic
Sec. Water Use: Cooling And A/C
Final Well Status: Recharge Well

Water Type: Casing Material:

Audit No: 095459

Tag:

Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock:

Well Depth:

Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: Data Entry Status:

Data Src:

Date Received: 7/26/1991 Selected Flag: Yes

Abandonment Rec:

Contractor: 5222 Form Version: 1

Owner:

Street Name:

County: OTTAWA-CARLETON Municipality: MARCH TOWNSHIP

Site Info:

Lot: 012

Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047271

DP2BR: 5

Spatial Status:

Code OB:

Code OB Desc: Bedrock
Open Hole:

Cluster Kind:

Date Completed: 23-MAR-91

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment: Elevation: Elevrc:

Zone: 18

East83: North83: Org CS:

UTMRC: 9

UTMRC Desc: unknown UTM

Order No: 20190406001

Location Method: na

Supplier Comment:

Overburden and Bedrock

Materials Interval

Formation ID: 931061492

Layer: 1 Color: 6

General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11

Other Materials:

GRAVEL

Mat3:

Other Materials:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931061493

 Layer:
 2

 Color:
 6

 General Color:
 BROWN

Mat1: 18

Most Common Material: SANDSTONE

Mat2: 73
Other Materials: HARD

Mat3:

Other Materials:

Formation Top Depth: 5
Formation End Depth: 14
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931061494

 Layer:
 3

 Color:
 2

 General Color:
 GREY

 Mat1:
 18

Most Common Material: SANDSTONE

Mat2: 20

Other Materials:QUARTZITEMat3:73Other Materials:HARDFormation Top Depth:14Formation End Depth:85

ft

Formation End Depth UOM:

Annular Space/Abandonment

Sealing Record

Plug ID: 933111266

 Layer:
 1

 Plug From:
 0

 Plug To:
 20

 Plug Depth UOM:
 ft

Method of Construction & Well

<u>Use</u>

Method Construction ID:961525536Method Construction Code:5

Method Construction: Air Percussion Other Method Construction:

Pipe Information

 Pipe ID:
 10595841

 Casing No:
 1

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930082758

Layer: 1
Material: 1

Open Hole or Material: STEEL

Depth From:

Depth To:22Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

Construction Record - Casing

Casing ID: 930082759

Layer: 2 Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To: 85
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525536

Pump Set At:

Static Level: 17

Final Level After Pumping: Recommended Pump Depth:

Pumping Rate: 20

Flowing Rate:

Recommended Pump Rate:

Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR

Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Water Details

Water ID: 933484560

 Layer:
 1

 Kind Code:
 1

 Kind:
 FRESH

 Water Found Depth:
 59

 Water Found Depth UOM:
 ft

Water Details

933484561 Water ID:

Layer: 2 Kind Code: 1 Kind: **FRESH** Water Found Depth: 76 Water Found Depth UOM: ft

Site: Database: **WWIS** lot 12 ON

Well ID: 1525535

Data Entry Status: Construction Date: Data Src:

Primary Water Use: Domestic Date Received:

7/26/1991 Sec. Water Use: Selected Flag: Yes

Final Well Status: Water Supply Abandonment Rec: 5222 Water Type: Contractor: Casing Material: Form Version: 1

Audit No: 095460 Owner: Tag: Street Name:

Construction Method: OTTAWA-CARLETON County: Elevation (m): Municipality: MARCH TOWNSHIP

Elevation Reliability: Site Info: Depth to Bedrock: Lot: 012

Well Depth: Concession: Overburden/Bedrock: Concession Name:

Pump Rate: Easting NAD83: Static Water Level: Northing NAD83: Flowing (Y/N): Zone:

Flow Rate: UTM Reliability: Clear/Cloudy:

Bore Hole Information

10047270 Bore Hole ID: Elevation: DP2BR: 8 Elevrc:

Spatial Status: Zone: 18

Code OB: East83: North83: Code OB Desc: Bedrock Open Hole: Org CS:

Cluster Kind: **UTMRC**: Date Completed: 22-MAR-91 **UTMRC Desc:** unknown UTM

Remarks: Location Method: na

Elevrc Desc: Location Source Date: Improvement Location Source:

Overburden and Bedrock

Improvement Location Method: Source Revision Comment: Supplier Comment:

Materials Interval

Formation ID: 931061489

Layer: Color: 6 General Color: **BROWN** Mat1: 28

Most Common Material: SAND Mat2: 77

Other Materials: LOOSE Mat3:

Other Materials:

Formation Top Depth: 5 8 Formation End Depth:

Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931061490

 Layer:
 3

 Color:
 6

General Color: BROWN

Mat1: 18

Most Common Material: SANDSTONE

Mat2: 73
Other Materials: HARD

Mat3:

Other Materials:

Formation Top Depth: 8
Formation End Depth: 18
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931061488

 Layer:
 1

 Color:
 6

 General Color:
 BROWN

 Mat1:
 05

 Most Common Material:
 CLAY

 Mat2:
 79

 Other Materials:
 PACKED

Mat3:

Other Materials:
Formation Top Depth: 0
Formation End Depth: 5
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931061491

 Layer:
 4

 Color:
 2

 General Color:
 GREY

 Mat1:
 18

Most Common Material: SANDSTONE

Mat2: 20

Other Materials:QUARTZITEMat3:73Other Materials:HARDFormation Top Depth:18Townsties Field Depth:37

Formation Top Depth: 18
Formation End Depth: 75
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933111265

 Layer:
 1

 Plug From:
 0

 Plug To:
 20

 Plug Depth UOM:
 ft

Method of Construction & Well

<u>Use</u>

Method Construction ID:961525535Method Construction Code:5

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

 Pipe ID:
 10595840

 Casing No:
 1

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930082757

Layer: 2 Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To: 75
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930082756

Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:

Depth To:22Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

Results of Well Yield Testing

Pump Test ID: 991525535

Pump Set At:

Static Level: 18
Final Level After Pumping: 40
Recommended Pump Depth: 40
Pumping Rate: 25
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft

Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN:

Flowing: N

Draw Down & Recovery

Pump Test Detail ID:934388161Test Type:Draw Down

 Test Duration:
 30

 Test Level:
 40

 Test Level UOM:
 ft

Draw Down & Recovery

934648699 Pump Test Detail ID: Draw Down Test Type:

Test Duration: 45 Test Level: 40 Test Level UOM: ft

Draw Down & Recovery

934905879 Pump Test Detail ID: Test Type: Draw Down

Test Duration: 60 Test Level: 40 Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934104503 Test Type: Draw Down

Test Duration: 15 40 Test Level: Test Level UOM: ft

Water Details

Water ID: 933484558

Layer: 1 Kind Code:

FRESH Kind: Water Found Depth: 55 Water Found Depth UOM: ft

Water Details

933484559 Water ID:

2 Layer: Kind Code:

FRESH Kind: Water Found Depth: 68 Water Found Depth UOM: ft

Site: lot 12 ON

Data Entry Status: 1521609

Well ID: Construction Date:

Data Src: 8/14/1987 Primary Water Use: Domestic Date Received: Sec. Water Use: Selected Flag: Yes

Final Well Status: Water Supply

Abandonment Rec: Water Type: Contractor: 3644

Casing Material: Form Version: 1 Audit No: 08547 Owner:

Tag: Street Name: Construction Method: **OTTAWA-CARLETON** County: Elevation (m): Municipality: MARCH TOWNSHIP

Database:

Order No: 20190406001

Elevation Reliability: Site Info: 012 Depth to Bedrock: Lot:

Well Depth: Concession: Overburden/Bedrock: Concession Name: Pump Rate: Easting NAD83: Static Water Level: Northing NAD83: Flowing (Y/N): Zone:

Flow Rate: UTM Reliability: Clear/Cloudy:

Bore Hole Information

Bore Hole ID: 10043431 DP2BR: 6

Spatial Status: Code OB: Bedrock Code OB Desc:

Open Hole:

Cluster Kind:

22-JUN-87 Date Completed:

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment:

Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931048619

Layer: Color: 2 General Color: **GREY** Mat1: 05 Most Common Material: CLAY Mat2: 12

Other Materials: **STONES**

Mat3:

Other Materials:

Formation Top Depth: 0 Formation End Depth: 6 Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

931048620 Formation ID: 2 Layer: Color: 2 **GREY**

General Color: Mat1: 18

SANDSTONE Most Common Material:

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 6 Formation End Depth: 85 Formation End Depth UOM: ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 961521609 Method Construction Code:

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

10592001 Pipe ID: Casing No: 1

Comment:

Elevation: Elevrc:

18 Zone:

East83: North83: Org CS:

UTMRC:

unknown UTM **UTMRC Desc:**

Order No: 20190406001

Location Method: na

Alt Name:

Construction Record - Casing

Casing ID: 930075872

Layer: 2 Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To: 85
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930075871
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:

Depth To:22Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

Results of Well Yield Testing

Pump Test ID: 991521609

Pump Set At: Static Level:

Static Level: 12
Final Level After Pumping: 40
Recommended Pump Depth: 40
Pumping Rate: 20
Flowing Rate:

Recommended Pump Rate: 15
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: N

Draw Down & Recovery

Pump Test Detail ID: 934390766

 Test Type:

 Test Duration:
 30

 Test Level:
 40

 Test Level UOM:
 ft

Draw Down & Recovery

Pump Test Detail ID: 934107084

 Test Type:

 Test Duration:
 15

 Test Level:
 40

 Test Level UOM:
 ft

Draw Down & Recovery

Pump Test Detail ID: 934652327

Test Type:

45 Test Duration: Test Level: 40 Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934909977

Test Type:

Test Duration: 60 Test Level: 40 Test Level UOM: ft

Water Details

Water ID: 933479244

Layer: Kind Code:

FRESH Kind: Water Found Depth: 60 Water Found Depth UOM: ft

Water Details

Water ID: 933479245

Layer: 2 Kind Code: 1

Kind: **FRESH** Water Found Depth: 78 Water Found Depth UOM: ft

Site: Database: **WWIS** lot 13 ON

Zone:

Order No: 20190406001

1526854 Well ID: Data Entry Status:

Construction Date: Data Src:

Domestic 10/20/1992 Primary Water Use: Date Received: Yes

Sec. Water Use: Selected Flag:

Final Well Status: Water Supply Abandonment Rec: 3323 Water Type: Contractor:

Casing Material: Form Version: 1 Audit No: NA Owner:

Tag: Street Name: OTTAWA-CARLETON Construction Method: County: Elevation (m): Municipality: MARCH TOWNSHIP

Elevation Reliability: Site Info: Depth to Bedrock: Lot: 013

Well Depth: Concession: Overburden/Bedrock: Concession Name:

Pump Rate: Easting NAD83: Static Water Level: Northing NAD83:

Flowing (Y/N): UTM Reliability: Flow Rate:

Clear/Cloudy:

Bore Hole Information

Bore Hole ID: 10048542 Elevation: 0

DP2BR: Elevrc: Spatial Status: Zone: 18

Code OB: East83: Bedrock Code OB Desc: North83: Open Hole: Org CS:

UTMRC: Cluster Kind:

Date Completed: 20-JUN-85 UTMRC Desc: unknown UTM Remarks: Location Method: na

Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Overburden and Bedrock

Materials Interval

Formation ID: 931065359

 Layer:
 1

 Color:
 7

 General Color:
 RED

 Mat1:
 21

 Most Common Material:
 GRANITE

Mat2:

Other Materials: Mat3:

Other Materials:

Formation Top Depth: 0
Formation End Depth: 30
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

 Formation ID:
 931065361

 Layer:
 3

 Color:
 2

 Color:
 2

 General Color:
 GREY

 Mat1:
 15

Most Common Material: LIMESTONE

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 225
Formation End Depth: 250
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931065360

 Layer:
 2

 Color:
 2

 General Color:
 GREY

 Mat1:
 21

 Most Common Material:
 GRANITE

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 30 Formation End Depth: 225 Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933111998

Layer: 1 Plug From: 0

Plug To: 18
Plug Depth UOM: ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 961526854

Method Construction Code: 5

Method Construction: Air Percussion

Other Method Construction:

Pipe Information

 Pipe ID:
 10597112

 Casing No:
 1

Comment: Alt Name:

Construction Record - Casing

Casing ID: 930084993

Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:

Depth To: 21
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991526854

Pump Set At:

Static Level:10Final Level After Pumping:180Recommended Pump Depth:200Pumping Rate:10

Flowing Rate:

Recommended Pump Rate: 8 Levels UOM: ft **GPM** Rate UOM: Water State After Test Code: **CLEAR** Water State After Test: Pumping Test Method: 1 **Pumping Duration HR:** 5 Pumping Duration MIN: Ν Flowing:

Draw Down & Recovery

Pump Test Detail ID: 934109018

Test Type:

 Test Duration:
 15

 Test Level:
 30

 Test Level UOM:
 ft

Draw Down & Recovery

Pump Test Detail ID: 934910356

Test Type:

 Test Duration:
 60

 Test Level:
 10

 Test Level UOM:
 ft

Draw Down & Recovery

Pump Test Detail ID: 934392652

Test Type: Test Duration: 30 10 Test Level: Test Level UOM: ft

Draw Down & Recovery

934653165 Pump Test Detail ID:

Test Type: Test Duration: 45 Test Level: 10 ft Test Level UOM:

Water Details

Water ID: 933486304

Layer: Kind Code:

FRESH Kind: Water Found Depth: 240 Water Found Depth UOM: ft

Order No: 20190406001

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 2018

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

Automobile Wrecking & Supplies:

Private

AUWR

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

Government Publication Date: 1999-Jan 31, 2019

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2014

Certificates of Approval:

Provincial

CA

Order No: 20190406001

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

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks: Provincial CFOT

List of commercial underground fuel oil tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Note: the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of commercial fuel tanks in the province. The TSSA updates information in its system on an ongoing basis; 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: Feb 28, 2017

<u>Chemical Register:</u> 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, 2019

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 - Dec 2018

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-Jan 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-Feb 28, 2019

Drill Hole Database:

Provincial DRI

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 - Oct 2018

<u>Dry Cleaning Facilities:</u>

Federal DRYCLEANERS

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

Government Publication Date: Jan 2004-Dec 2017

Environmental Activity and Sector Registry:

Provincial

EASR

Order No: 20190406001

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-Feb 28, 2019

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-Feb 28, 2019

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-Feb 28, 2019

Environmental Effects Monitoring:

Federal

FFM

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

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-Jan 31, 2019

Environmental Issues Inventory System:

Federal

FIIS

FHS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial

EMHE

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

Government Publication Date: Dec 31, 2016

List of TSSA Expired Facilities:

Provincial

EXP

List of facilities and tanks - for which there was once a registration - no longer registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed from the ground are included in the expired facilities inventory held by the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Federal Convictions:

Federal

FCON

Order No: 20190406001

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal

FCS

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

Government Publication Date: Jun 2000-Oct 2018

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 2018

Frou Storage Tank:

List of registered private and retail fuel storage tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel storage tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic:

Provincial

FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

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

Government Publication Date: 1986-Dec 31, 2018

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 2016

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

Order No: 20190406001

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

Government Publication Date: 1950-Aug 2003*

TSSA Incidents:

Provincial INC

List of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC) and made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors, and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario:

Provincial

LIMO

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

Government Publication Date: Sep 30, 2017

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*

Environmental Penalty Annual Report:

Provincial

MISA PENALTY

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, 2017

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 2018

National Analysis of Trends in Emergencies System (NATES):

Federal

NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial NCPL

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

Government Publication Date: Dec 31, 2016

National Defense & Canadian Forces Fuel Tanks:

Federal

NDFT

Order No: 20190406001

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:

=ederal

NDWD

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

Government Publication Date: 2001-Apr 2007

National Energy Board Pipeline Incidents:

Federal

NEBI

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

Government Publication Date: 2008-Sep 30, 2018

National Energy Board Wells:

Federal

NFBW

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

NFFS

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

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGW

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

Government Publication Date: 1988-Feb 28, 2019

Ontario Oil and Gas Wells:

Provincial

OOGW

Order No: 20190406001

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-May 2018

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-Feb 28, 2019

<u>Canadian Pulp and Paper:</u> 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: 1988-Sep 2018

TSSA Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills) made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), 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 pipeline incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

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-Feb 28, 2019

Ontario Regulation 347 Waste Receivers Summary:

Provincial

REC

Order No: 20190406001

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-Jan 2019

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: 1999-Jan 31, 2019

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 SPI

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

Government Publication Date: 1988-Dec 2018

Wastewater Discharger Registration Database:

Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2016

Anderson's Storage Tanks:

Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal

TCFT

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

Government Publication Date: 1970-Aug 2018

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial

VAR

Order No: 20190406001

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

Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of tank variances in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory:

Provincial

WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under 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-Feb 28, 2019

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

Order No: 20190406001

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: Dec 31, 2017

Definitions

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

<u>Detail Report</u>: 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.

<u>Distance:</u> 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.

<u>Elevation:</u> 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.

<u>Map Key:</u> 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.'

<u>Unplottables:</u> 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.

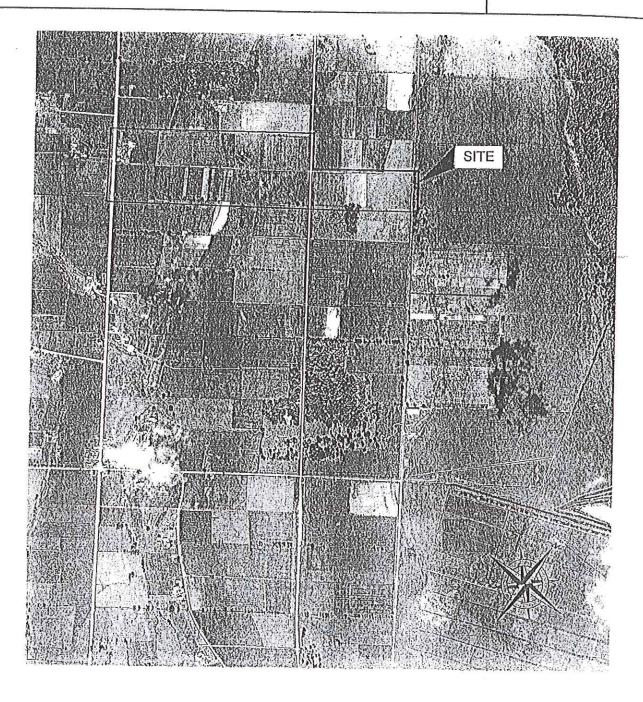
Order No: 20190406001

APPENDIX D

AERIAL PHOTOGRAPHS

AIR PHOTOGRAPH

PLATE B-1



1934



DateJune 18, 2000

Project 003-055

AIR PHOTOGRAPH



1959



Project No. 101010

Date November 2010



1965



Project No. 019179

Date May 2019

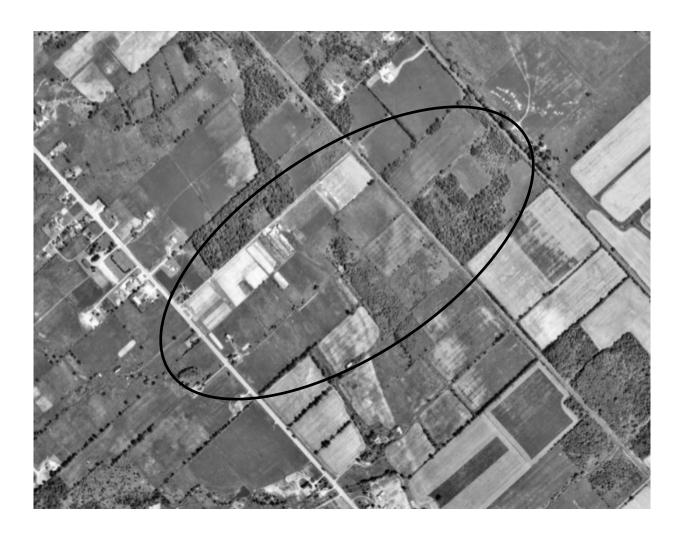


1976



Project No. 019179

Date May 2019



1991



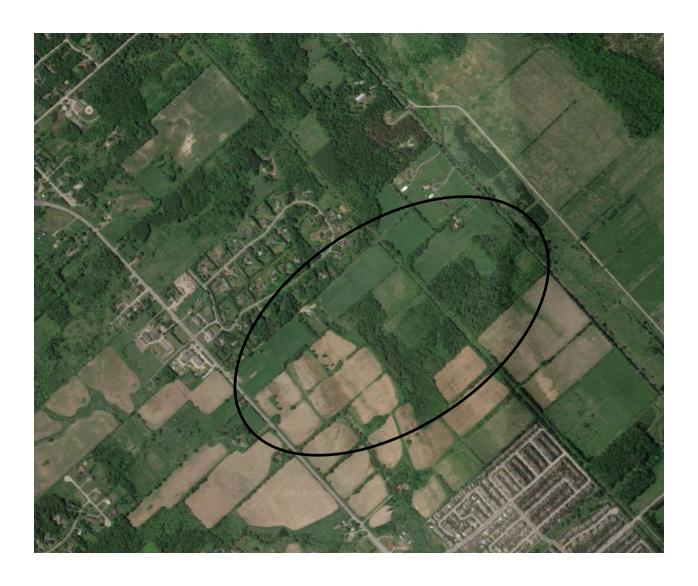
Project No	019179
Date	May 2019



2007



Project No	019179	
Date	May 2019	



~2018



Project No. 019179

Date May 2019

APPENDIX E

SITE PHOTOGRAPHS



Photograph 1: From March Road looking northeast – grassed earthern mound in distance



Photograph 2: From March Road looking southeast – area of formed dwelling at 1020 March Road



Photograph 3: From March Road looking east – gravel surface parking area, concrete slab and former berry fields associated with the previous berry farm vendor building



Photograph 4: From existing driveway at 1070 March Road looking south – pond in distance



Photograph 5: Area in close proximity to previous dwelling at 1070 March Road looking east



Photograph 6: Area in close proximity to previous dwelling at 1070 March Road looking east – manual water pump mounted on concrete slab, tire, domestic dryer and debris in background



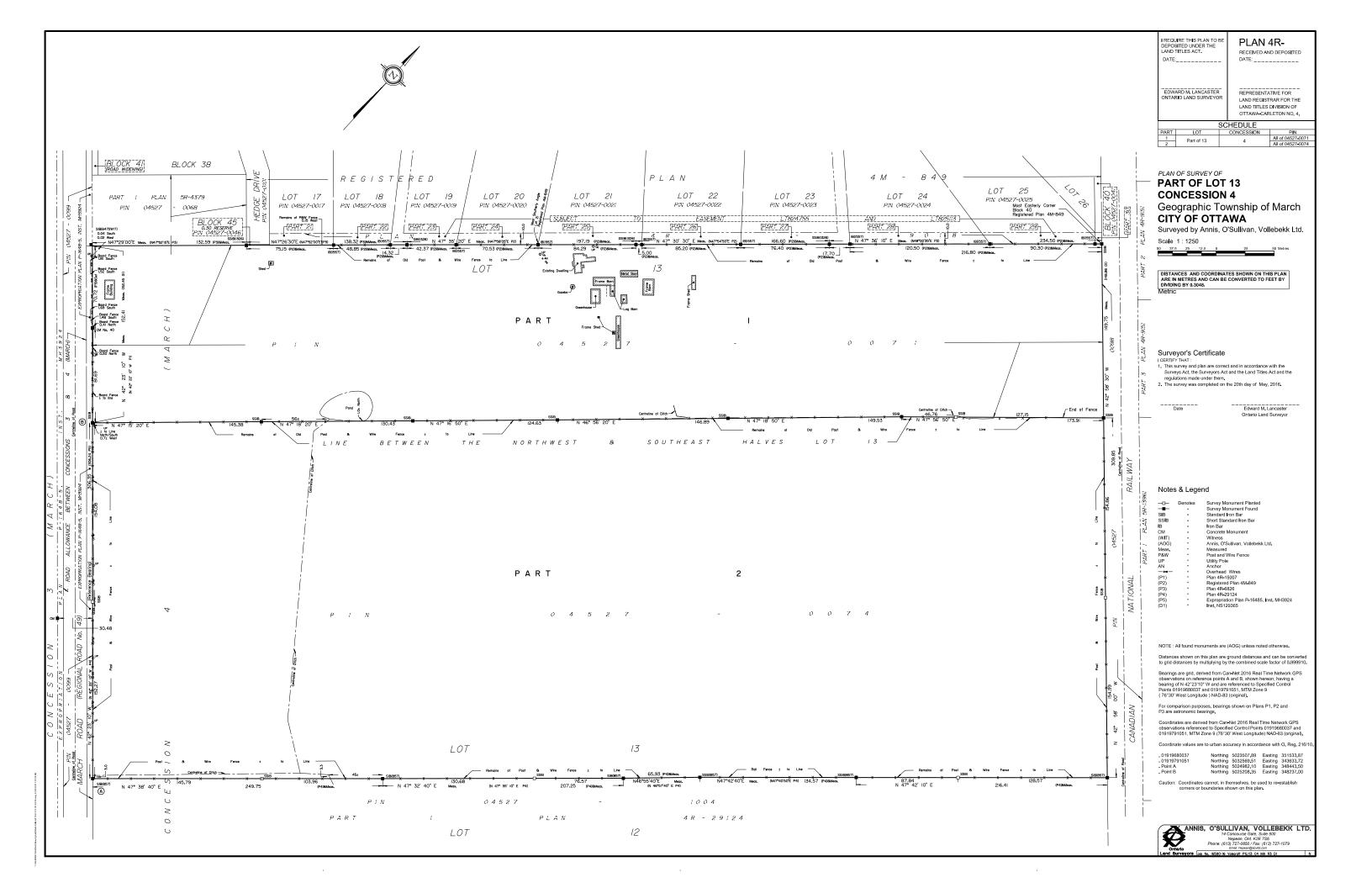
Photograph 7: East of previous dwelling at 1070 March Road, near bottom of ridge looking south

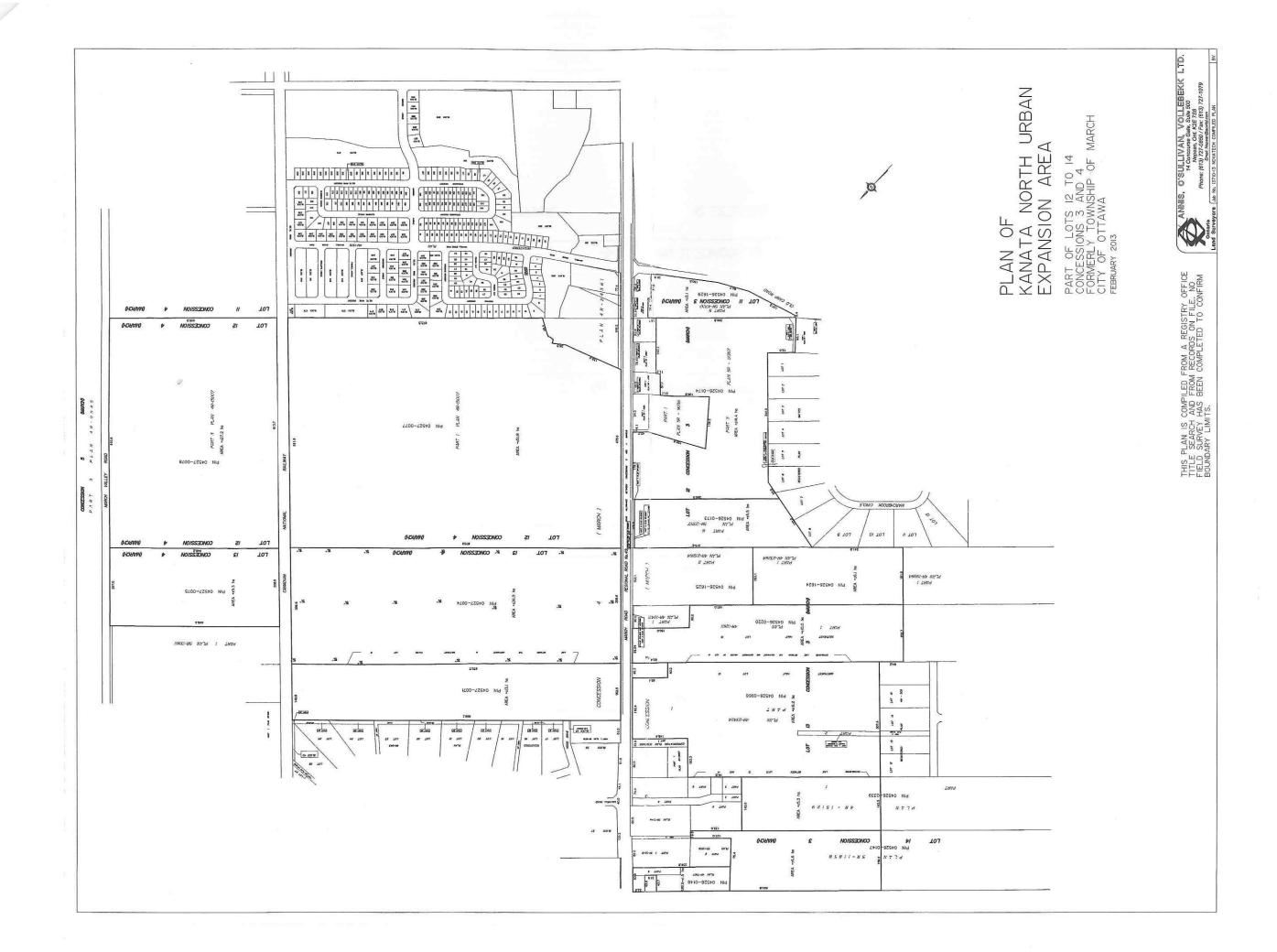


Photograph 8: Area in close proximity to previous berry farm vendor building looking east – above ground storage tank likely formerly used to store water based solution (see report Sections 4.0 & 5.2)

APPENDIX F

SITE SURVEY PLANS





APPENDIX G

QUALIFICATIONS OF ASSESSOR(S)



D.G. MOREY, P.Eng.

LANGUAGE: English

EDUCATION: Bachelor of Applied Science, Civil Engineering

University of Ottawa, 2009

PROFESSIONAL

AFFILIATIONS: Registered Professional Engineer Ontario

EXPERIENCE:

2012 – Present Morey Associates Ltd.

Director/Senior Engineer

Responsible for the managerial and technical aspects of the operation of the firm carrying out geotechnical and hydrogeological investigations, environmental site assessments, and construction

inspection and testing.

2010 – 2012 Levac Robichaud Leclerc Associates Ltd.

Junior Engineer

Analysis, preparation and field work for geotechnical investigations, hydrogeological impact assessments and environmental assessments. Also carry out quality control testing

(i.e. compaction, subgrade, concrete testing)

2009 – 2010 Kollaard Associates Inc.

Junior Engineer

Analysis and preparation of geotechnical and slope stability evaluation reports. Responsible for field work and drafting (using AutoCAD) for geotechnical investigations, slope stability evaluations, environmental site assessments, hydrogeological investigations, site grading plans, roadway designs, and structural designs. Also carry out quality control testing (i.e. compaction,

subgrade, concrete testing).

2005 – 2008 Kollaard Associates Inc.

(Summers) Civil Engineering Student

Responsible for field work and drafting for geotechnical investigations, site grading plans, septic system designs, roadway

designs, and structural designs.

2004 Morey Houle Chevrier Engineering Ltd.

Technician

Carried out surveying and drafting for site grading plans and septic system designs. Also carried out well grouting inspections

and well pump tests.



C.R. MOREY, P.Eng

LANGUAGE: English

EDUCATION: B.Sc., Geological Engineering, Queen's University, Kingston,

Ontario, 1973.

M.Sc., (Eng.), Civil Engineering, Queen's University, Kingston,

Ontario, 1977.

Graduate courses in Civil and Geotechnical Engineering, Windsor

and Carleton Universities, 1980 and 1982.

PROFESSIONAL

AFFILIATIONS: Registered Professional Engineer Ontario

Designated Consulting Engineer

EXPERIENCE:

2012 – PRESENT Morey Associates (Kemptville, Ontario)

Senior Engineer

Responsible for supervision of all technical aspects of projects

carried out by the firm.

2010 - 2012 Levac Robichaud Leclerc Associates Ltd. (Rockland &

Kemptville, Ontario)

Director of Geotechnical Department

Responsible for senior level supervision of geotechnical investigations, hydrogeological impact assessments and environmental site assessments and providing QA/QC for the

related project letters, memos, reports and drawings.

2005 – 2010 Kollaard Associates Inc. (Kemptville, Ontario)

Principal

Responsible for mentoring of professional staff, project letter and report reviews, senior level project supervision, business

development, and assisting in office administration.

1994 – 2005 Morey Houle Chevrier Engineering Ltd. (Kemptville,

Ontario)
President

Responsible for the managerial and technical aspects of the operation of the firm carrying out geotechnical and hydrogeological investigations, environmental site assessments, and construction inspection and testing. Geotechnical and hydrogeological expert witness for Ontario Municipal Board hearings and Ontario Court

Provincial Division trials.



1980 - 1994 Golder Associates Ltd. (Windsor & Ottawa, Ontario)

Geotechnical Engineer then Associate

Responsible for subsurface investigations and design of roadways, retaining walls, airport runways, residential and commercial developments, buried services, septic systems, wharves, building foundations, dams, municipal drains, stormwater management facilities, building flood proofing.

PUBLICATIONS: Co-author of two papers regarding retrogressive landslides in sensitive marine deposited silty clay of the Ottawa Valley area,

published by the Geological Survey of Canada.