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Phase I-Environmental Site Assessment

5505 and 5545 Albion Road
Ottawa, Ontario

Prepared For

W.O. Stinson & Son Ltd.

September 23, 2020

Report: PE4169-2

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by W.O. Stinson & Son Ltd. to conduct a Phase I-Environmental Site Assessment (ESA) for the properties located at5504 and 5545 Albion Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was initially developed in 1972 for commercial purposes. The southern portion of the Phase I Property (5545 Albion Road) was occupied by a construction / heavy equipment company (Vanson Construction Limited) and a private fuel outlet (PFO), with three (3) underground storage tanks (USTs), which stored diesel and gasoline fuel. In addition to the PFO, a truck repair shop was operating on-site for more than 15 years.

A Phase II ESA was completed by Pinchin in September 2017 and consisted of drilling eight (8) boreholes on the subject site, all of which were completed as groundwater monitoring wells. Four (4) boreholes were placed along the east (MW-1 and MW-2) and west (MW-3 and MW-4) sides of the UST nest; one on the east side of the pump island (MW-5); one in the immediate area of the point of discharge of the garage drain on the central west side of the property (MW-6); and two (2) in the truck repair building (MW-7 and MW-8) to address the potential concerns.

Soil and groundwater samples were collected and submitted for laboratory analysis of benzene, toluene, ethylbenzene, xylenes (BTEX), petroleum hydrocarbons (PHCs) fractions F1-F4 and/or volatile organic compounds (VOCs). Analytical results were compared to the applicable MECP Table 2 Industrial Standards for potable water.

Based on the analytical test results, VOC and PHC concentrations in soil and groundwater in MW-2, MW-3, MW-4, MW-6, MW-7 and MW-8 were in compliance of the selected MECP Standards. The soil and groundwater samples collected from MW-1 and MW-5, situated in the immediate area between the USTs an pump island, were in excess of the applicable standards. Based on these results, the soil and groundwater impacts were related the former PFO and no impact related to the former truck repair shop.

An environmental remediation and tank decommissioning program was completed by Paterson Group Inc. (Paterson) in November of 2017. The program included the removal of petroleum hydrocarbon impacted soil and groundwater, and the removal of the three (3) onsite USTs and associated pump island and underground piping. In total, 659 metric

tonnes of soil were removed off-site. A total of 58,000 L of groundwater was removed from the excavation and either disposed of at Clean Water Works or remediated on-site. The source of the petroleum release was determined to be the underground piping connecting the USTs to the pump islands.

Following the removal of impacted soil, several confirmatory soil and groundwater samples were submitted to for laboratory analysis for BTEX and PHCs. All final confirmatory samples were either non-detect or contained trace levels of BTEX and/or PHC concentrations in compliance with the selected MECP Standards.

Based on 2017 Phase II ESA conducted by Pinchin in combination with the remedial work completed by Paterson, it is our opinion that the potential impact of the former truck repair shop and former private fuel outlet on-site have been adequately addressed and as such, these on-site potentially contaminated activities (PCAs) are no longer considered to represent areas of potential environmental concern (APECs) on the Phase I Property.

According to the historical review of the northern portion of the Phase I Property (5505 Albion Road), the lot has always existed as vacant and undeveloped land. However, in 2014, fill material of an unknown quality was imported onto the site. The importation of fill material on the northern portion of the site as well as on the southern portion of the site is considered to represent and APEC on the Phase I Property.

The historical use of the surrounding lands consisted primarily of commercial in the immediate area, which included an off-site PCA; a retail fuel outlet (RFO) across Albion Road, approximately 25 m west of the subject site. Based on its location relative to the subject land, the RFO is considered to represent an APEC on the Phase I Property.

Following the historical research, a site visit was conducted. The southern portion of the Phase I Property is vacant with only remnants of the concrete pad foundations of the former buildings on-site. No signs of staining or stressed vegetation were noted on-site. The northern portion of the Phase I Property remains vacant and undeveloped land. Evidence of fill material was noted across the Phase I Property.

Neighbouring land use in the Phase I Study Area consists of commercial with some residential land use as well as vacant land. The RFO across Albion Road remains present and in operation at this time. No additional PCAs that would result in APECs were identified on the Phase I Study Area.

Recommendations

Based on the findings of our assessment, it is **our opinion that a Phase II-Environmental Site Assessment is required for the subject property.**

1.0 INTRODUCTION

At the request of W.O. Stinson & Son Ltd., Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) for the properties located at 5505 and 5545 Albion Road, in the City of Ottawa, Ontario, herein referred to as the Phase I Property. The purpose of this Phase I-ESA was to research the past and current use of the Phase I Property and properties within the Phase I Study Area to identify any potentially contaminating activities that would result in areas of potential environmental concern on the Phase I Property.

Paterson was engaged to conduct this Phase I-ESA by Mr. John Armstrong, of W.O. Stinson & Son Ltd. The head office of W.O. Stinson & Son Ltd. is located at 1187 Bank Street, Ottawa, Ontario. Mr. Armstrong can be reached by telephone at (613) 226-7381.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all of our findings and results of the environmental conditions at this site.

This Phase I-ESA report has been prepared in general accordance with Ontario Regulation (O.Reg.) 153/04, as amended, under the Environmental Protection Act, and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I-ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Address:	5505 and 5545 Albion Road, Ottawa, Ontario
Legal Description:	Part of Lot 30, Concession 4 from Rideau River, now in the City of Ottawa.
Location:	The site is located on the northeast corner of the intersection of Albion Road and Mitch Owens Road, in the City of Ottawa, Ontario. For the purpose of this assessment, Mitch Owens Road is assumed to run in an east-west direction. Refer to Figure 1 - Key Plan in the Figures section following the text.
Latitude and Longitude:	45°16’ 16.45" N, 75° 35' 38.22" W

Site Description:

Configuration:	Irregular
Area:	36180m^2 (approximately)
Zoning:	RU – Rural Countryside Zone RH – Rural Heavy Industrial Zone
Current Use:	The Phase I Property is currently vacant land.
Services:	The Phase I Property is situated in area where private wells and septic systems are relied upon.

3.0 SCOPE OF INVESTIGATION

The scope of work for this Phase I – Environmental Site Assessment was as follows:

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases, and regulatory agencies;
- Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- Conduct interviews with persons knowledgeable of current and historic operations on the subject properties, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of O.Reg. 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- Provide a preliminary environmental site evaluation based on our findings;
- Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I Study Area for this assignment. Properties outside the 250 m radius are not considered to have impacted the Phase I Property, based on their significant distance from the site.

First Developed Use Determination

Based on historical review, the Phase I Property was first occupied by a construction / heavy equipment company which included a private fuel outlet, circa 1972. For the purpose of this report, the first developed use of the Phase I Property is for industrial purposes in 1972.

Fire Insurance Plans

Fire insurance plans are not available for the area of the subject site or the study area.

National Archives

City directories are not available for the subject site or the study area.

Chain of Title

Paterson did not request a Chain of Title for the subject site as it was determined that sufficient information was gathered from other sources, such as personal interviews, city directories and previous engineering reports.

Survey Plan

A survey plan was not available for review as part of this assessment.

Previous Engineering Reports

A Phase I Environmental Site Assessment (ESA) was completed by Pinchin Ltd. (Pinchin) in July 2017 and determined that the subject site, addressed 5545 Albion Road, had a private fuel outlet consisting of three (3) underground storage tanks (USTs) and a single pump island. It was also determined that truck servicing and repair work had taken place in one of the site buildings for the past 15 years.

Other concerning observations included fuel and oil staining on the concrete floor of the repair shop and the presence of a retail fuel outlet (RFO) with USTs approximately 25 m to the west of the site. An inquiry to Ontario Spills revealed that a 700 L gasoline spill occurred in March 2007 at the intersection of Albion Road and Mitch Owens Road, immediately adjacent to the southwest corner of the property. Pinchin recommended a Phase II ESA for 5545 Albion Road.

A Phase II ESA was completed by Pinchin in September 2017 and consisted of drilling eight (8) boreholes on the subject site, all of which were completed as groundwater monitoring wells. Four (4) boreholes were placed along the east (MW-1 and MW-2) and west (MW-3 and MW-4) sides of the UST nest; one on the east side of the pump island (MW-5); one in the immediate area of the garage discharge drain on the central west side of the property (MW-6); and two (2) in the truck repair building (MW-7 and MW-8) to address the potential concerns. The locations of these boreholes are shown on Drawing PE4169-3 – Site Plan, in the Figures section of this report.

Soil and groundwater samples were collected and submitted for laboratory analysis of benzene, toluene, ethylbenzene, xylenes (BTEX), petroleum hydrocarbons (PHCs) fractions F1-F4 and/or volatile organic compounds (VOCs). Analytical results were compared to the applicable MECP Table 2 Industrial Standards for potable water.

Based on the analytical test results, VOC and PHC concentrations in soil and groundwater from MW-2, MW-3, MW-4, MW-6, MW-7 and MW-8 were in compliance of the selected MECP Standards. The soil and groundwater samples collected from boreholes/monitoring wells MW-1 and MW-5 were in excess of the applicable standards. These monitoring wells were situated immediately east and south west of the pump island. Based on these results, the soil and groundwater impacts were related to the former UST and pump island. No impact related to the former truck repair shop or off-site RFO were identified. It was recommended that the impacted soil and groundwater be further delineated in conjunction with a Remedial Action Plan.

An environmental remediation and tank decommissioning program was completed by Paterson Group Inc. (Paterson) during the interim of November 22 to 29, 2017. The program included the removal of petroleum hydrocarbon impacted soil and groundwater, and the removal of the three (3) onsite USTs and associated pump island and underground piping. The impacted soil was considered solid non-hazardous material. The source of the petroleum release was determined to be the underground piping connecting the USTs to the pump islands.

Vanson Construction Ltd. conducted the excavation work and removed a total of approximately 659 metric tonnes (mt) of contaminated soil from the subject site, under the observation of Paterson personnel. The contaminated soil was disposed of at Tomlinson Waste Management Inc. in Osgoode, Ontario. A total of 58,000 L of groundwater was removed from the excavation and either disposed of at Clean Water Works or else remediated onsite by Vanson.

Following the removal of impacted soil, fifty-four (54) soil samples were recovered from the walls and floor of the excavation and seventeen (17) were submitted to Paracel/Eurofins Laboratories for BTEX and PHCs analysis. All final confirmatory soil samples were either non-detect or contained trace levels of BTEX and/or PHC concentrations in compliance with the selected MECP Standards.

Confirmatory groundwater sampling was completed following the soil remediation program, confirming that the groundwater in the excavation and immediate area was in compliance with the selected MECP Standard.

Based on the review of the previous environmental work completed at 5545 Albion Road, it is our opinion that the potential impact of the former truck repair shop has been adequately addressed by Pinchin in the 2017 Phase II ESA and as such, is no longer considered a potentially contaminated activity (PCA) that represents an area of potential environmental concern (APEC) on the Phase I Property. Similarly, the former USTs and pump island are no longer considered to be an APEC on site.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on September 18, 2020. No records were found in the NPRI database for properties within the Phase I Study Area.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I Study Area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on September 18, 2020. The search revealed a small area, approximately 80 m south of the Phase I Property, that is considered a provincially significant wetland as part of the Rideau River. No other areas of natural significance were within the Phase I Study Area.

PCB Inventory

A search of national PCB waste storage sites was conducted. No records pertaining to PCB waste storage sites were found for properties within the Phase I Study Area.

Ministry of the Environment, Conservation and Parks (MECP) Instruments

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. A response from the MECP had not been received at the time this report was issued. A copy of the response will be forwarded to the client if it contains any pertinent information. A copy of the request form is provided in Appendix 2.

MECP Submissions

A request was submitted to the MECP Freedom of Information office for information with respect to reports related to environmental conditions for the property. A response from the MECP had not been received at the time this report was issued. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Incident Reports

A request was submitted to the MECP Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties. A response from the MECP had not been received at the time this report was issued. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry (ESR) was conducted electronically on September 18, 2020 for the subject and neighbouring properties. No Records of Site Condition (RSCs) were identified on the Phase I Property or properties within the Phase I Study Area.

MECP Waste Management Records

A request was submitted to the MECP Freedom of Information office for information with respect to waste management records. At the time of this report, the MECP FOI search results had not been received. A response from the MECP had not been received at the time this report was issued. A copy of the response will be forwarded to the client if it contains any pertinent information.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. There are no former waste disposal sites located within 250 m of the study area.

MECP Coal Gasification Plant Inventory

The Ministry of the Environment, Conservation and Park document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located within the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on September 18, 2020, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. Several active storage tank records were identified for the southern portion of the Phase I Property. However, based on the relatively recent environmental work completed by Paterson in 2017, these active records are considered outdated and not reflective of the actual site conditions. Presently, the Phase I Property is vacant with no indications of USTs on-site.

Several other active and expired storage tank records were identified for 5546 Albion Road (McEwan Petroleum), approximately 25 m west of the Phase I Property.

Based on the close proximity relative to the subject land, this RFO is considered a PCA which represents an APEC on the Phase I Property. A copy of the TSSA correspondence is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled “Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa”, was reviewed. No former landfills were identified on properties within the Phase I Study Area.

City of Ottawa Historical Land Use Inventory (HLUI)

A search request for the City of Ottawa’s Historical Land Use Inventory (HLUI 2005) database was requested as part of this assessment. A response from the City had not been received at the time this report was issued. A copy of the response will be forwarded to the client if it contains any pertinent information.

Environmental Risk Information Services (ERIS) Report

An ERIS (Environmental Risk Information Service) Report was obtained for the Phase I Property and properties within the Phase I Study Area.

According to the ERIS report, there were Certificates of Approval (Cas), Environmental Compliance Approvals (ECAs), an Environmental Registry record, 3 TSSA related records and an Ontario Waste Generator record pertaining to the Phase I Property. The environmental records and approvals were associated with the waste management handling at Vanson Construction Ltd. These records were approvals with no indications of infractions. The fuel storage tank records were dated back from 1992 and 1996, which identified 2-single wall USTs, each with 13,600-L capacity storing gasoline and diesel. The remaining record was for a 500-L AST. These records identifed active storage tanks on-site. However, it should be noted that these tanks were decommissioned and removed in 2017, followed by site remediation. Based on the relatively recent site clean-up, as discussed previously in this report, these records identified in the ERIS pertaining to the Phase I Property are not considered APECs.

Several records from various databases were identified in the ERIS search for properties within the Phase I Study Area, which included Certificates of Approval (CAs), Environmental Compliance Approvals (ECAs), TSSA related records, Ontario Waste Generators and Ontario Spills Registry. The majority of these records were identified on properties more than 120 m away from the Phase I Property and as such, are not considered to pose any risk to the Phase I Property.

Records identified in the immediate area of the Phase I Property included TSSA related records that were identifed at 5546 Albion Road (McEwan Petroleum) approximately 25 m west of the subject land. As previously discussed in this report, this PCA is considered to represent an APEC on the Phase I Property.

No other pertinent information that would result in APECs on the Phase I Property were identified in the ERIS report. A copy of the report is included in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. Based on the review, the following observations have been made:

1976 The southern portion of the Phase I Property appears to be occupied by a commercial property, while the northern portion remains as a treed covered vacant lot. The neighbouring properties appear to be either commercial or vacant land, and a farmstead and residences (further to the east).

1991 The Phase I Property appears to be occupied by a heavy equipment /construction company with a couple of outbuildings and a fuelling station. A motel can be seen south of Mitch Owen, commercial buildings to the north, and vacant lands to the east, west and further to the south.

2002 No significant changes are apparent on the Phase I Property or lands to the east, west and north. The surrounding lands across Mitch Owens, to the south are occupied by a new residential development.

2011 No significant changes are apparent on the Phase I Property. The adjacent property to the west, across Albion Road, is occupied by a retail fuel outlet. Surrounding lands to the north and west are occupied by residential developments.

2014 (GeoOttawa) Fill material appears to have been placed on the vacant northern portion of the Phase I Property. An aggregate pit can be seen further to the northeast.

2017 The northern portion of the Phase I Property is occupied by school buses, while the southern portion of the site appears to be somewhat vacant/abandoned. Additional residential dwellings have been developed on the previously vacant lands to west.

Copies of selected aerial photographs are included in Appendix 1.

Physiographic Maps

The Ontario Geological Survey publication 'The Physiography of Southern Ontario, Third Edition' was reviewed as a part of this assessment. According to the publication and attached mapping, the Phase I Property is situated within the Ottawa Valley Clay Plains physiographic region, described as "clay plains interrupted by ridges of rock or sand". Mapping shows the subject land is situated in an area of limestone and till plains.

Topographic Maps

Topographic information was obtained from Natural Resources Canada – The Atlas of Canada website. The topographic maps indicate that the elevation of the subject site is approximately 100 m ASL, and that the regional topography in the general area of the site slopes downward in a westerly direction towards the Rideau River. The referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on the information from NRCAN, bedrock in the area of the site consists of dolomite of the Oxford Formation. Based on the map, the thickness of overburden ranges from 10 to 25 m and consists of nearshore marine sediments (reworked glacial till).

Water Well Records

A well record search was conducted on September 21, 2020 for all drilled wells within 250 m of the subject site. The search returned 25 well records, all of which were domestic water wells.

One potable water well was identified for the Phase I Property, specifically at 5545 Albion Road, drilled in 1970 to a maximum depth of 26.5 mbgs.

Based on this well record, the site soils generally consisted of clayey silt, followed by gravely clay, underlain by clay, followed by limestone bedrock. Bedrock was encountered on-site at a depth of approximately 16 mbgs.

The remaining domestic well records were located on the neighbouring properties. These wells were drilled from 1965 to 2018 at depths ranging from 9.5 to 42 mbgs. All wells were drilled to clear fresh water. No other pertinent information was

provided in these well records. A copy of the well records has been included in Appendix 2.

Areas of Natural Significance and Water Bodies

No areas of natural significance or water bodies were identified within the Phase I Study Area.

Fill Placement

Based on the historical review, fill material of an unknown quality is expected to be present on the Phase I Property, and as such, it is considered to represent an APEC on the Phase I Property.

5.0 INTERVIEWS

Property Owner Representatives

Mr. John Armstrong of W.O. Stinson & Son Ltd., the current owner of 5505 and 5545 Albion Road was interviewed via email on September 18, 2020. W.O. Stinson & Son Ltd (Stinson) purchased the Phase I Property in January 2018. Prior to their ownership, the property was owned by Vanson Construction, who have occupied the land since 1972. Vanson had 3 USTs installed in 1976, containing gasoline and diesel fuel and a pump station to fuel their fleet. According to the landowner, the original USTs were removed and replaced in 1992. As previously discussed in this report, site remediation was completed in 2017 in the area of the UST nest. Since then, no additional work has been conducted on-site, with the exception of the building demolitions.

According to the landowner, the Phase I Property is presently vacant. All former buildings that were on-site were demolished in 2019. Mr. Armstrong is not aware of any new potential environmental concerns regarding the Phase I Property.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted by Ms. Mandy Witteman, from the Environmental Department of Paterson Group, on September 21, 2020 at 10:00 AM. Weather conditions were sunny with a temperature of approximately 10°C. At the time of the site visit, neighbouring land use within the Phase I Study Area was also observed, from publicly accessible areas.

6.2 Specific Observations at the Phase I Property

Buildings and Structures

The southern portion of the Phase I Property is occupied by two (2) concrete slab foundations/remnants of the former on-site buildings that were originally constructed in 1973. The south-eastern side of the property was occupied by two (2) sea containers, while the remaining Phase I Property is vacant. A potable water well was noted on the south-eastern side of the subject land.

Site Features

The Phase I Property is vacant and either gravelled with low brush or asphaltic paved concrete with evidence of fill material on-site. The site is relatively flat and at the grade of Albion Road and Mitch Owens with a slight down slope towards the southwest/west.

Site drainage consists of infiltration on the gravelled areas and sheetflow on the asphaltic concrete paved areas which overland flow to the ditches located along Albion Road.

No evidence of a UST or AST was noted at the time of the site visit. No evidence of current or former railway or spur lines was observed on the Phase I Properly at the time of the site visit. No areas of ponded water, staining, stressed vegetation or unidentified substances were observed on-site at this time. No potential environmental concerns were identified at the time of the assessment.

Subsurface Structures and Utilities

The Phase I Property is situated in a rural area where private services are relied upon (septic system and potable water well). The private well was noted on the southeastern side of the property. An underground hydroelectricity line was noted on the southern portion of the Phase I Property next to the former truck repair garage/shop.

All underground structures associated with the former private fuel outlet (USTs and ancillary equipment) were excavated and removed in 2017 and as such, these underground structures are no longer considered a source of potential contamination.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. Land use adjacent to the subject site is as follows:

- ❒ North: Commercial retailers (auto glass and storage), followed by commercial
- ❒ South: Mitch Owens, followed by commercial property (food truck stop)
- ❒ East: Vacant land
- ❒ West: Albion Road, followed by a retail fuel outlet and vacant lands

Land use within the Phase I Study Area consists of commercial properties and vacant land within the immediate area, followed by residential subdivisions to the west and south. As previously identified in this report, an RFO (McEwan) occupies the neighbouring property across Albion Road, approximately 25 m west of the Phase I Property. The presence of this RFO is considered to represent an APEC on the Phase I Property. Surrounding land use is shown on Drawing PE4169-4 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on the historical review, the Phase I Property, primarily the southern portion, was initially developed for industrial purposes, while the northern portion has remained vacant and undeveloped land.

The southern portion, addressed 5545 Albion Road, was owned and occupied by Vanson Construction Ltd. – a construction / heavy equipment company with a private fuel outlet (PFO) and truck repair shop, since 1972. The PFO was decommissioned, followed by a site remediation in 2017. The present landowner, W.O Stinson & Son Ltd. (Stinson) purchased the Phase I Property in 2018. In 2019, the site buildings were demolished. The land has remained vacant since then.

The former uses of the southern portion of the Phase I Property were identified as APECs on the Phase I Property, which included a private fuel outlet (USTs and pump island) and a truck repair garage associated with the Vanson Construction. Based on the 2017 Phase II ESA report prepared by Pinchin, in combination with the subsequent site remediation program carried out by Paterson in 2017, the

former PFO and truck repair shop have been sufficiently addressed and as such, no longer represent APECs.

Potentially Contaminating Activities

- PCA 30 – "*Importation of Fill Material of Unknown Quality,"* associated with importation of fill material of an unknown quality on the Phase I Property (APEC 1).
- PCA 28 – *"Gasoline and Associated Products Storage in Fixed Tanks,"* associated with the current off-site retail fuel outlet (McEwan) 5546 Albion Road (APEC 2).

The PCAs identifed in the Phase I ESA are shown on PE4169-4 – Surrounding Land Use Plan.

Areas of Potential Environmental Concern

The aforementioned PCAs have resulted in the following APECs:

- APEC 1: Resulting from the importation of fill material of unknown quality across the Phase I Property (PCA 30).
- APEC 2: Resulting from the current retail fuel outlet on the neighbouring property located 25m west of the Phase I property (PCA 28).

The aforementioned APECs and their respective locations on the Phase I Property are shown on Drawing PE4934-3 – Site Plan, appended in the Figures Section of this report.

Contaminants of Potential Concern

Based on the APECs identified on the Phase I Property, the contaminants of potential concern (CPCs) are:

- Benzene, Toluene, Ethylbenzene and Xylenes (BTEX).
- Petroleum Hydrocarbons (PHCs, F_1-F_4).
- Metals.
- Volatile Organic Compounds (VOCs).

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

According to the Geological Survey of Canada website, the bedrock in the area of the Phase I Property is reported to consist of dolomite bedrock of the Oxford Formation. The overburden thickness of ranges from 10 to 25 m and consists of nearshore marine sediments (reworked glacial till).

Paterson recently completed a geotechnical investigation. Based on the investigation, the soil profile generally consisted of fill material (silty sand and with silty clay with crushed stone, gravel, cobbles and some organics), underlain by alternating layers of silty sand and sandy silt, followed by a deposit of silty clay. Bedrock was not encountered.

Groundwater is expected to flow in a westerly direction towards the Rideau River.

Fill Placement

Based on the historical land use of the Phase I Property, fill material of an unknown quality is known to be present on-site. The presence of fill material is considered to represent an APEC on the Phase I Property.

Water Bodies and Areas of Natural Significance

No areas of natural significance or water bodies were identified within the Phase I Study Area.

Drinking Water Wells

One potable water well was identified on the southeastern side of the Phase I Property at the time of the site investigation.

Existing Buildings and Structures

The southern portion of the Phase I Property is occupied by two (2) concrete slab foundations/remnants of the former on-site buildings that were originally constructed in 1972. The south-eastern side of the property was occupied by two (2) sea containers, while the remaining Phase I Property is vacant.

Subsurface Structures and Utilities

The Phase I Property is situated in a rural area where private services are relied upon (septic system and potable water well). The private well was noted on the southeastern side of the property. An underground hydroelectricity line was noted on the southern portion of the Phase I Property located next to the former truck repair garage/shop. All underground structures associated with the former private fuel outlet (USTs and ancillary equipment) were excavated and removed in 2017. These former underground structures are no longer considered a source of potential contamination.

Neighbouring Land Use

The Phase I Property is situated in a rural development area that consists of both commercial and residential land use.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, two (2) PCAs are considered to result in APECs on the Phase I Property. These APECs are summarized in Table 1, along with their respective locations and contaminants of potential concern (CPCs) on the Phase I Property.

TABLE 1: Potentially Contaminating Activities and Areas of Potential Environmental Concern

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, Soil, and/or Sediment)
APEC 1: Resulting from the importation of fill material of unknown quality	Entire Phase I Property	PCA 30 – "*Importation of Fill Material of Unknown Quality,*"	On-site	VOCs PHCs Metals	Soil and/or groundwater
APEC 2: Resulting from the presence of a retail fuel outlet.	Southwest side of the Phase I Property	PCA 28 – "*Gasoline and Associated Products Storage in Fixed Tanks,*"	Off-site	BTEX PHCs (F_1-F_4)	Groundwater

Contaminants of Potential Concern

As per the APECs identified in Section 7.1, the contaminants of potential concern (CPCs) in soil and/or groundwater include:

- ❒ Benzene, Toluene, Ethylbenzene and Xylenes (BTEX).
- ❒ Petroleum Hydrocarbons (PHCs, F_1-F_4).
- ❒ Metals.
- ❒ Volatile Organic Compounds (VOCs).

The CPCs are expected to be present in the soil and/or groundwater of the Phase I Property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I- ESA is considered to be sufficient to conclude that there are PCAs that have resulted in APECs on the Phase I Property.

A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

8.1 Assessment

Paterson Group was retained by W.O. Stinson & Son Ltd. to conduct a Phase I-Environmental Site Assessment (ESA) for the properties located at5504 and 5545 Albion Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and the Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property was initially developed in 1972 for commercial purposes. The southern portion of the Phase I Property (5545 Albion Road) was occupied by a construction / heavy equipment company (Vanson Construction Limited) and a private fuel outlet (PFO), with three (3) underground storage tanks (USTs), which stored diesel and gasoline fuel. In addition to the PFO, a truck repair shop was operating on-site for more than 15 years.

A Phase II ESA was completed by Pinchin in September 2017 and consisted of drilling eight (8) boreholes on the subject site, all of which were completed as groundwater monitoring wells. Four (4) boreholes were placed along the east (MW-1 and MW-2) and west (MW-3 and MW-4) sides of the UST nest; one on the east side of the pump island (MW-5); one in the immediate area of the point of discharge of the garage drain on the central west side of the property (MW-6); and two (2) in the truck repair building (MW-7 and MW-8) to address the potential concerns.

Soil and groundwater samples were collected and submitted for laboratory analysis of benzene, toluene, ethylbenzene, xylenes (BTEX), petroleum hydrocarbons (PHCs) fractions F1-F4 and/or volatile organic compounds (VOCs). Analytical results were compared to the applicable MECP Table 2 Industrial Standards for potable water.

Based on the analytical test results, VOC and PHC concentrations in soil and groundwater in MW-2, MW-3, MW-4, MW-6, MW-7 and MW-8 were in compliance of the selected MECP Standards. The soil and groundwater samples collected from MW-1 and MW-5, situated in the immediate area between the USTs an pump island, were in excess of the applicable standards. Based on these results, the soil and groundwater impacts were related the former PFO and no impact related to the former truck repair shop.

An environmental remediation and tank decommissioning program was completed by Paterson Group Inc. (Paterson) in November of 2017. The program included the removal of petroleum hydrocarbon impacted soil and groundwater, and the removal of the three (3) onsite USTs and associated pump island and underground piping. In total, 659 metric tonnes of soil were removed off-site. A total of 58,000 L of groundwater was removed from the excavation and either disposed of at Clean Water Works or remediated on-site. The source of the petroleum release was determined to be the underground piping connecting the USTs to the pump islands.

Following the removal of impacted soil, several confirmatory soil and groundwater samples were submitted to for laboratory analysis for BTEX and PHCs. All final confirmatory samples were either non-detect or contained trace levels of BTEX and/or PHC concentrations in compliance with the selected MECP Standards.

Based on 2017 Phase II ESA conducted by Pinchin in combination with the remedial work completed by Paterson, it is our opinion that the potential impact of the former truck repair shop and former private fuel outlet on-site have been adequately addressed and as such, these on-site potentially contaminated activities (PCAs) are no longer considered to represent areas of potential environmental concern (APECs) on the Phase I Property.

According to the historical review of the northern portion of the Phase I Property (5505 Albion Road), the lot has always existed as vacant and undeveloped land. However, in 2014, fill material of an unknown quality was imported onto the site. The importation of fill material on the northern portion of the site as well as on the southern portion of the site is considered to represent and APEC on the Phase I Property.

The historical use of the surrounding lands consisted primarily of commercial in the immediate area, which included an off-site PCA; a retail fuel outlet (RFO) across Albion Road, approximately 25 m west of the subject site. Based on its location relative to the subject land, the RFO is considered to represent an APEC on the Phase I Property.

Following the historical research, a site visit was conducted. The southern portion of the Phase I Property is vacant with only remnants of the concrete pad foundations of the former buildings on-site. No signs of staining or stressed vegetation were noted on-site. The northern portion of the Phase I Property remains vacant and undeveloped land. Evidence of fill material was noted across the Phase I Property.

Neighbouring land use in the Phase I Study Area consists of commercial with some residential land use as well as vacant land. The RFO across Albion Road remains present and in operation at this time. No additional PCAs that would result in APECs were identified on the Phase I Study Area.

8.2 Recommendations

Based on the findings of our assessment, it is **our opinion that a Phase II-Environmental Site Assessment is required for the subject property.**

9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04, as amended, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

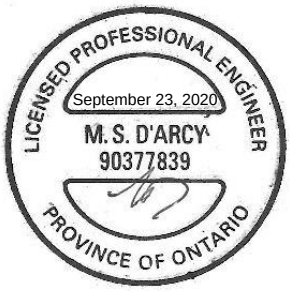
Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of W.O. Stinson & Son Ltd. Permission and notification from W.O. Stinson & Son Ltd. and Paterson will be required to release this report to any other party.

Paterson Group Inc.

Mandy Witteman, B.Eng., M.A.Sc.

Mark D'Arcy, P.Eng, QP_{ESA}



Report Distribution:

- ❑ W.O. Stinson & Son Ltd.
- ❑ Paterson Group

10.0 REFERENCES

Federal Records
Air photos at the Energy Mines and Resources Air Photo Library.
National Archives.
Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).
Natural Resources Canada – The Atlas of Canada.
Environment Canada, National Pollutant Release Inventory.
PCB Waste Storage Site Inventory.

Provincial Records
MECP Freedom of Information and Privacy Office.
MECP Municipal Coal Gasification Plant Site Inventory, 1991.
MECP document titled “Waste Disposal Site Inventory in Ontario”.
MECP Brownfields Environmental Site Registry.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
MNR Areas of Natural Significance.
MECP Water Well Record Inventory.
Chapman, L.J., and Putnam, D.F., 1984: ‘The Physiography of Southern Ontario, Third Edition’, Ontario Geological Survey Special Volume 2.

Municipal Records
City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites.”, prepared by Golder Associates, 2004.
Intera Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.
geoOttawa: City of Ottawa electronic mapping website.
City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources
Personal Interviews.

Public Information Sources
Google Earth.
Google Maps/Street View.

Private Information Sources
ERIS Report

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4169-3 – SITE PLAN

DRAWING PE4169-4 – SURROUNDING LAND USE PLAN

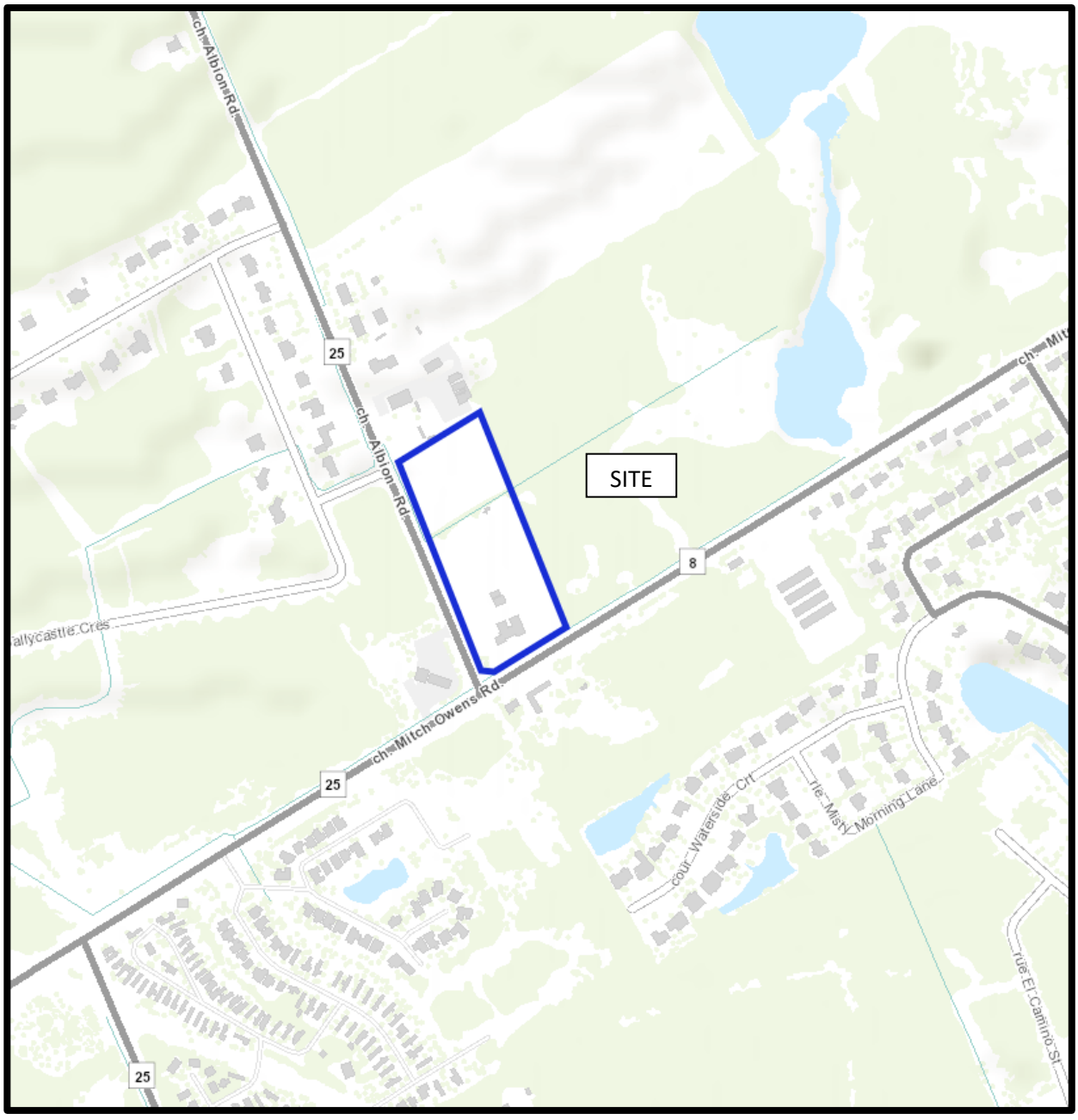


FIGURE 1

KEY PLAN

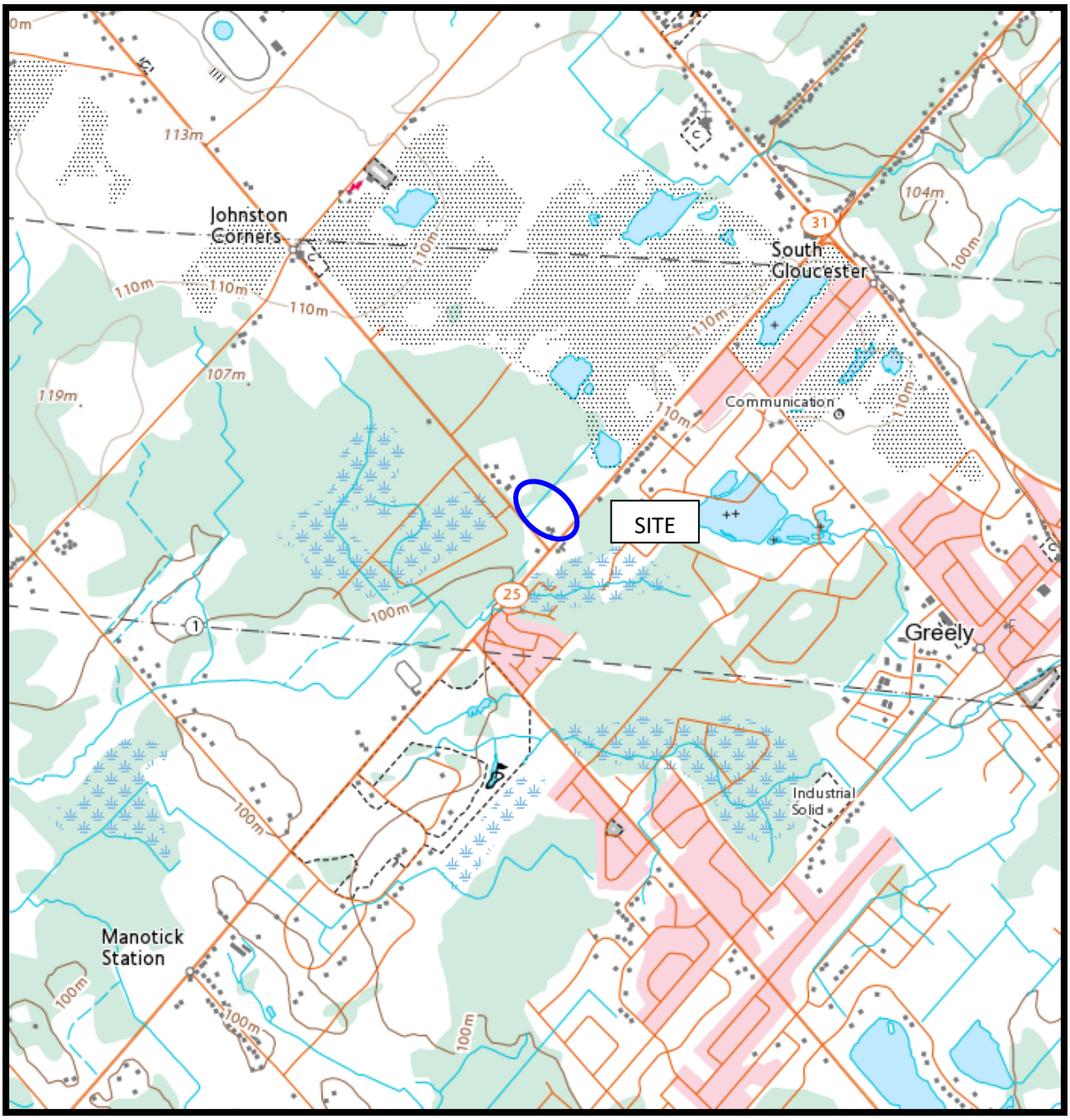


FIGURE 2

TOPOGRAPHIC MAP

#5480 BANK STREET
VACANT LAND

#5457 ALBION ROAD
COMMERCIAL

#5505 ALBION ROAD
BUS STORAGE YARD

GRAVEL

#5545 ALBION ROAD

APEC 1

GRAVEL

BUILDING FOUNDATION
(FORMER GARAGE BUILDING)

BUILDING FOUNDATION

GRASSED

ASPHALTIC CONCRETE

MW-8

MW-7

MW-5

EXC. WELL 1

FORMER PUMP ISLAND LOCATION

GRASSED

EXC. WELL 2

MW-1

MW-2

FORMER UNDERGROUND TANK NEST LOCATION

GRASSED

MW-3

MW-4

APEC 2

MW-6

DISCHARGE OF FLOOR DRAIN CONTENTS

APPROXIMATE AREA OF REMEDIATION EXCAVATION, PATERSON GROUP, 2017

MITCH OWENS ROAD

#6690 MITCH OWENS ROAD
COMMERCIAL LAND

ALBION ROAD

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN:

1. **IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY (PCA 30)**
2. **5546 ALBION ROAD - RETAIL FUEL OUTLET (PCA 28)**

#627 BALLYCASTLE CRES.
RESIDENTIAL

KILLYMOON WAY

#635 BALLYCASTLE CRES.
RESIDENTIAL

#639 BALLYCASTLE CRESCENT
RESIDENTIAL

#643 BALLYCASTLE CRESCENT
RESIDENTIAL

RESIDENTIAL

#5546 ALBION ROAD
McEWEN GAS STATION

LEGEND:

- MONITORING WELL LOCATION, PATERSON GROUP 2017
- MONITORING WELL LOCATION BY OTHERS
- DESTROYED MONITORING WELL LOCATION BY OTHERS

patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL
0			

W.O. STINSON & SON LIMITED

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
5505 AND 5545 ALBION ROAD

OTTAWA, **ONTARIO**

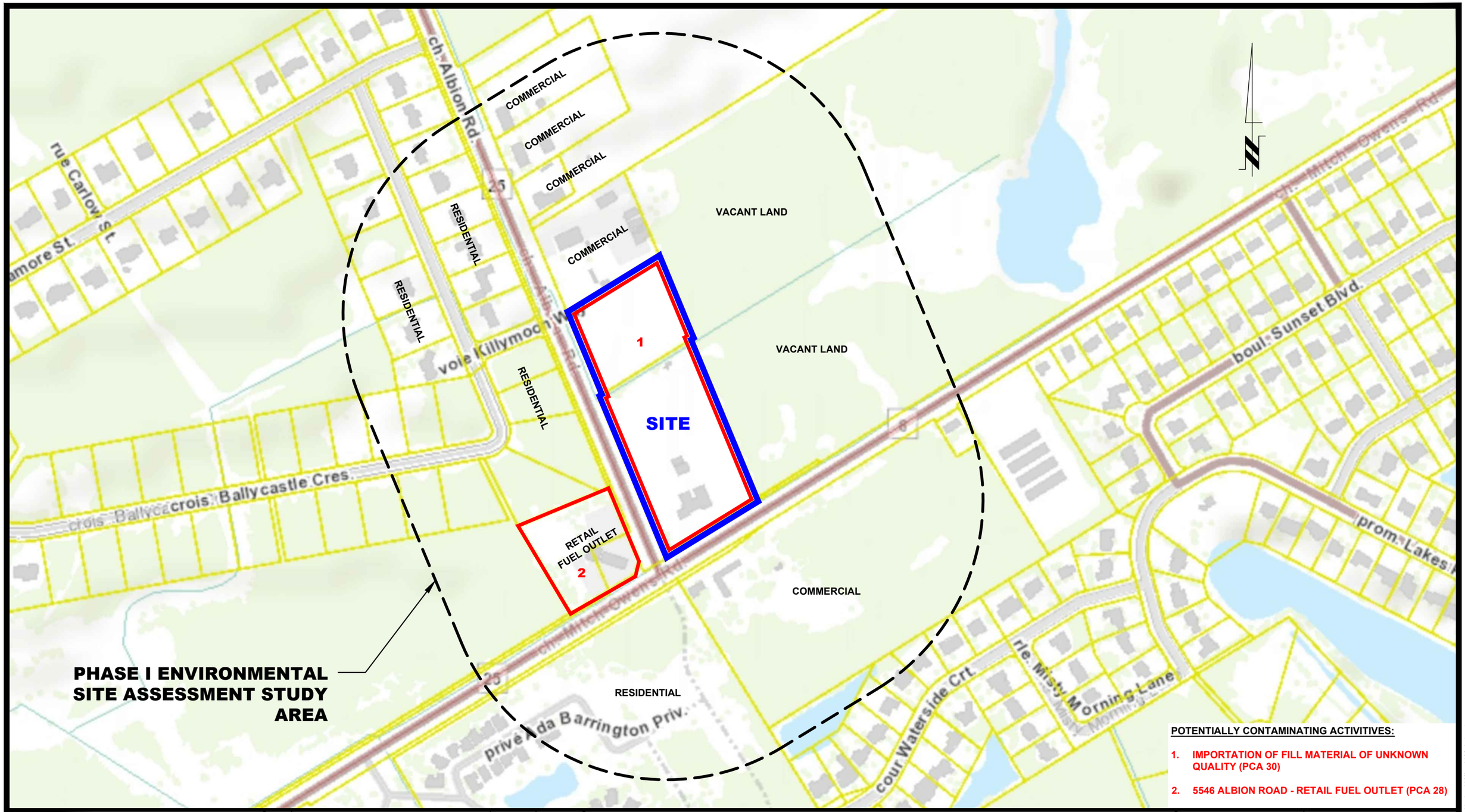
Title:

SITE PLAN

Scale: 1:1000	**Date:** 09/2020
Drawn by: MPG	**Report No.:** PE4169-1
Checked by: MW	**Dwg. No.:** PE4169-3
Approved by: MSD	**Revision No.:**

11x17

p:\autocad drawings\environmental\pe41xx\pe4169\pe4169-3 site plan 2020.dwg



patersongroup
consulting engineers
154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL
0			

W.O. STINSON & SON LIMITED

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
5505 AND 5545 ALBION ROAD

OTTAWA, ONTARIO

Title:

SURROUNDING LAND USE PLAN

Scale: 1:4000	Date: 09/2020
Drawn by: MPG	Report No.: PE4169-1
Checked by: MW	Dwg. No.: PE4169-4
Approved by: MSD	Revision No.:

11x17

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APPENDIX 1

AERIAL PHOTOGRAPHS

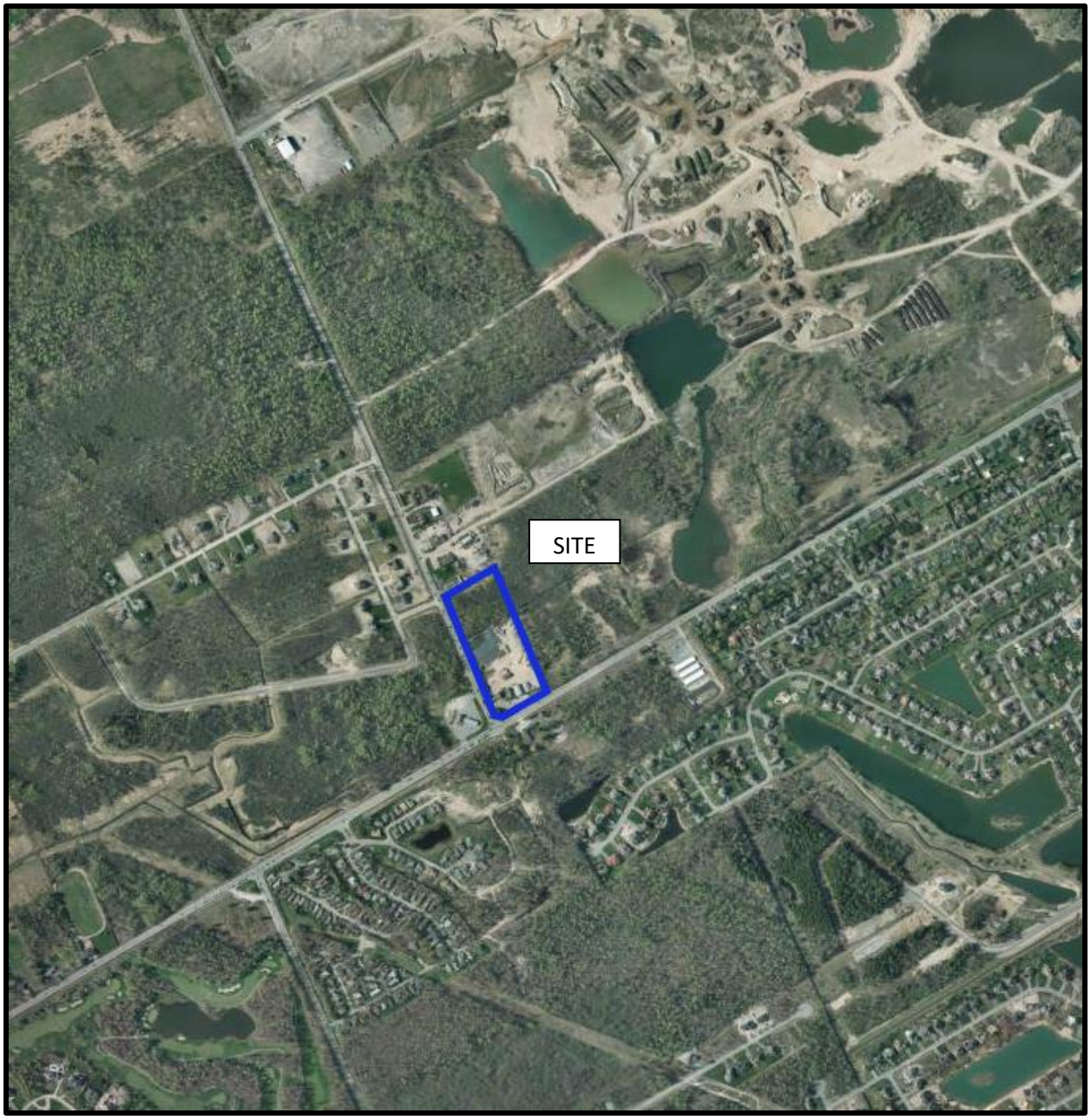
SITE PHOTOGRAPHS

AERIAL PHOTOGRAPH
1976

patersongroup

AERIAL PHOTOGRAPH
1991

AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2011

patersongroup

AERIAL PHOTOGRAPH
2017

patersongroup

Photograph 1: Southern view of the 5545 Albion Road, taken from the southeast corner of the lot.

Photograph 2: View of the sea containers located on the southeastern side of 5545 Albion Road.

Photograph 3: View of the northeastern portion of the Phase I Property (5505 Albion Road).

Photograph 4: View of a former building foundation at 5545 Albion Road.

Photograph 5: View of the former truck repair shop at 5545 Albion Road.

Photograph 6: View of the southwestern portion of the Phase I Property (5505 Albion Road).

APPENDIX 2

MECP FOI REPONSE

MECP WELL RECORDS

HLUI RESPONSE

TSSA CORRESPONDENCE

ERIS REPORT

Ontario

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Go Back to Map

Well ID

Well ID Number: 7285357
Well Audit Number: *Z237317*
Well Tag Number: *A207657*

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	635 BILLYCASTLE CRES
Township	GLOUCESTER TOWNSHIP
Lot	029
Concession	RF 03
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	GLOUCESTER
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 453235.00 Northing: 5013339.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	CLAY	GRVL	SAND	0 ft	40 ft
GREY	LMSN	SAND	STNS	40 ft	114 ft
GREY	LMSN	SAND	STNS	114 ft	120 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
50 ft	0 ft	NEAT CEMENT 45.2	

Method of Construction & Well Use

Method of Construction	Well Use
Air Percussion	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6.25 inch	STEEL	-2 ft	50 ft
6 inch	OPEN HOLE	50 ft	120 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

After test of well yield, water was	OTHER
If pumping discontinued, give reason	
Pump intake set at	110 ft
Pumping Rate	20 GPM
Duration of Pumping	1 h:0 m
Final water level	40.583 ft
If flowing give rate	
Recommended pump depth	100 ft

Recommended pump rate	20 GPM
Well Production	
Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	9.583 ft		
1	14 ft	1	26 ft
2	18.1 ft	2	12 ft
3	22.1 ft	3	9.7 ft
4	25.9 ft	4	9.7 ft
5	29.4 ft	5	9.7 ft
10	32.4 ft	10	9.7 ft
15	33.9 ft	15	9.7 ft
20	35.3 ft	20	9.7 ft
25	36.5 ft	25	9.7 ft
30	37.5 ft	30	9.7 ft
40	38.7 ft	40	9.7 ft
45		45	
50	39.7 ft	50	9.7 ft
60	40.7 ft	60	9.7 ft

Water Details

Water Found at Depth	Kind
114 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	50 ft	9.75 inch
50 ft	120 ft	6 inch

Audit Number: Z237317

Date Well Completed: March 16, 2017

Date Well Record Received by MOE: April 18, 2017

Ontario

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Go Back to Map

Well ID

Well ID Number: 7329110
Well Audit Number: *Z302536*
Well Tag Number: *A260988*

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	639 BALLYCASTE CRESCENT
Township	GLOUCESTER TOWNSHIP
Lot	030
Concession	RF 03
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	GLOUCESTER
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 453258.00 Northing: 5013264.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	SAND	CLAY	BLDR	0 ft	40 ft
GREY	SNDS			40 ft	110 ft
GREY	SNDS			110 ft	113 ft
GREY	SNDS			113 ft	120 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
50 ft	0 ft	NEAT CEMENT	

Method of Construction & Well Use

Method of Construction	Well Use
Air Percussion	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6.25 Inch	STEEL	-2 ft	50 ft
5.875 Inch	OPEN HOLE	50 ft	120 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

After test of well yield, water was	OTHER
If pumping discontinued, give reason	
Pump intake set at	100 ft
Pumping Rate	20 GPM
Duration of Pumping	1 h:0 m
Final water level	14.25 ft
If flowing give rate	
Recommended pump depth	100 ft

Recommended pump rate	20 GPM
Well Production	
Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	12.417 ft		
1	13.7 ft	1	13.3 ft
2	13.7 ft	2	12.8 ft
3	13.7 ft	3	12.5 ft
4	13.8 ft	4	12.5 ft
5	13.8 ft	5	12.5 ft
10	14 ft	10	12.5 ft
15	14.1 ft	15	12.5 ft
20	14.1 ft	20	12.5 ft
25	14.1 ft	25	12.5 ft
30	14.2 ft	30	12.5 ft
40	14.2 ft	40	12.5 ft
45		45	
50	14.2 ft	50	12.5 ft
60	14.3 ft	60	12.5 ft

Water Details

Water Found at Depth	Kind
10 ft	Untested
113 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	50 ft	9.75 Inch
50 ft	120 ft	5.875 Inch

Audit Number: Z302536

Date Well Completed: January 15, 2019

Date Well Record Received by MOE: February 22, 2019

Ontario

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Go Back to Map

Well ID

Well ID Number: 7329269
Well Audit Number: *Z299779*
Well Tag Number: *A258609*

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	664 Ballycaste Crescent
Township	GLOUCESTER TOWNSHIP
Lot	030
Concession	RF 03
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	GLOUCESTER
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 453142.00 Northing: 5013249.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND		SOFT	0 m	12.72 m
GREY	LMSN		HARD	12.72 m	36.96 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	16.06 m	QUICK GROUT	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
air rotary	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
15.55 cm	STEEL	-.9 m	16.06 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7526

Results of Well Yield Testing

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	45 m
Pumping Rate	30.3 LPM
Duration of Pumping	7 h:0 m
Final water level	3.68 m
If flowing give rate	
Recommended pump depth	30.3 m
Recommended pump rate	45 LPM
Well Production	

Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	3.25 m		
1	3.62 m	1	3.58 m
2	3.63 m	2	3.55 m
3	3.63 m	3	3.49 m
4	3.64 m	4	3.45 m
5	3.64 m	5	3.41 m
10	3.65 m	10	3.25 m
15	3.66 m	15	3.25 m
20	3.66 m	20	3.25 m
25	3.66 m	25	3.25 m
30	3.67 m	30	3.25 m
40	3.67 m	40	3.25 m
45		45	
50	3.68 m	50	3.25 m
60	3.68 m	60	3.25 m

Water Details

Water Found at Depth	Kind
12.72 m	Fresh
33.33 m	Fresh

Hole Diameter

Depth From	Depth To	Diameter
0 m	16 m	25.4 cm
0 m	36.96 m	15.55 cm

Audit Number: Z299779

Date Well Completed: January 30, 2019

Date Well Record Received by MOE: March 04, 2019

Updated: January 24, 2020

Ontario

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

Go Back to Map

Well ID

Well ID Number: 7330777
Well Audit Number: *Z177453*
Well Tag Number: *A153585*

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	655 Ballycastie Crescent
Township	GLOUCESTER TOWNSHIP
Lot	030
Concession	RF 03
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	Ottawa
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 453165.00 Northing: 5013135.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND			0 ft	10 ft
GREY	CLAY	STNS		10 ft	42 ft
GREY	LMSN	FCRD		42 ft	47 ft
GREY	LMSN			47 ft	80 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	49 ft	CEMENT QUICK GROUT	

Method of Construction & Well Use

Method of Construction	Well Use
Air Percussion	
	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6.125 Inch	STEEL	-2 ft	49 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 4006

Results of Well Yield Testing

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	50 ft
Pumping Rate	20 GPM
Duration of Pumping	1 h:0 m
Final water level	
If flowing give rate	
Recommended pump depth	50 ft

Recommended pump rate	20 GPM
Well Production	
Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	16.1 ft		
1	16.2 ft	1	16.5 ft
2	16.2 ft	2	16.3 ft
3	16.3 ft	3	16.2 ft
4	16.3 ft	4	16.2 ft
5	16.4 ft	5	16.2 ft
10	16.5 ft	10	16.2 ft
15	16.7 ft	15	16.2 ft
20	16.8 ft	20	16.2 ft
25	16.8 ft	25	16.2 ft
30	16.8 ft	30	16.2 ft
40	16.8 ft	40	16.2 ft
45		45	
50	16.8 ft	50	16.2 ft
60	16.8 ft	60	16.2 ft

Water Details

Water Found at Depth	Kind
59 ft	Fresh
65 ft	Fresh

Hole Diameter

Depth From	Depth To	Diameter
0 ft	49 ft	10 Inch
49 ft	80 ft	6.8 Inch

Audit Number: Z177453

Date Well Completed: July 18, 2018

Date Well Record Received by MOE: April 01, 2019

CD 8c1 310/50

15 No 1841

UTM 18 Z 4513310 E

K.5 R 5012860 N

Con III Lot 30

Elev. 0335

Basin 25

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton ... Township, Village, Town or City Gloucester

Con. III RF ... Lot 30 ... Date completed 3 (day) Sep (month) 65 (year)

[redacted]ess 467 McLeod St. Ottawa

Casing and Screen Record

Inside diameter of casing	6¼"
Total length of casing	64'
Type of screen	none
Length of screen	—
Depth to top of screen	—
Diameter of finished hole	6"

Pumping Test

Static level	18 FT.
Test-pumping rate	30 G.P.M.
Pumping level	76 FT
Duration of test pumping	24 hrs
Water clear or cloudy at end of test	clear
Recommended pumping rate	30 G.P.M.
with pump setting of	120 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
sand	0	10		
gravel & boulders	10	30		
hard boulder Till	30	54		
hard limestone	54	90	75 - 110	Fresh
Sandstone	90	119		
Granite	119	136		

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

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

Drilling or Boring Firm McLean Water Supply Ltd

Address 1532 Raven Ave Ottawa 3

Licence Number 1686

Name of Driller or Borer A. Scharf

Address

Date Sept 1 1965

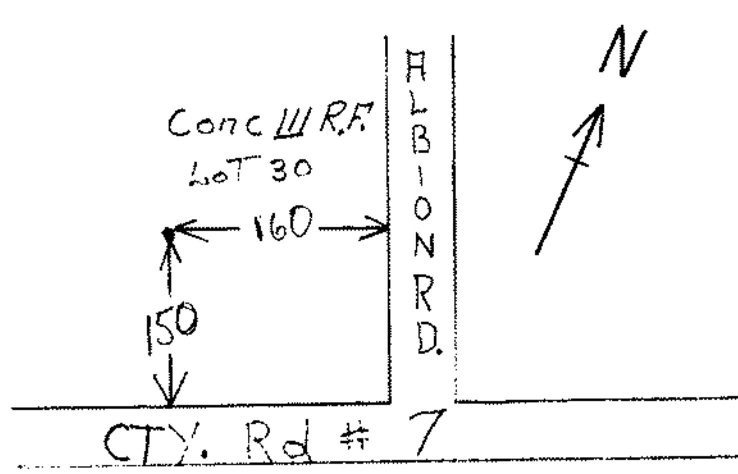
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



R.F.

316/50

UTM | 4 1 5 3 2 4 0 | E

Lot 29

| 5 | R | 5 0 1 1 3 3 2 0 | N

Elev. | 4 | R | 0 3 4 1 |

Basin | 2 5 |

The Ontario Water Resources Commission Act

15 № 2207

WATER WELL RECORD

County or District: Carl

Township, Village, Town or City: Gloucester

Con. IV RF   Lot 29

Date completed: 24 (day) Feb (month) 1966 (year)

Owner: Geo. Crain & Sons Ltd (print in block letters)

Address: 555 Cambridge St Ottawa

Casing and Screen Record

Inside diameter of casing	6 1/16
Total length of casing	52'
Type of screen	
Length of screen	
Depth to top of screen	
Diameter of finished hole	6"

Pumping Test

Static level	5'
Test-pumping rate	10 G.P.M.
Pumping level	15
Duration of test pumping	2 hr
Water clear or cloudy at end of test	clear
Recommended pumping rate	5 G.P.M.
with pump setting of	35' feet below ground surface

Well Log / Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
sand fill	0'	6'	52'	fresh
clay	6	40'		
hardpan	40'	46'		
gravel	46'	52'		
gravel backed up pipe to 45'				

For what purpose(s) is the water to be used? office building & garage

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

Drilling or Boring Firm: Capital Water Supply

Address: 14 Ashford Dr Ottawa 828-1764

Licence Number: 1687

Name of Driller or Borer: H Mains

Address:

Date: 24 Feb 1966

Walter Kavanagh

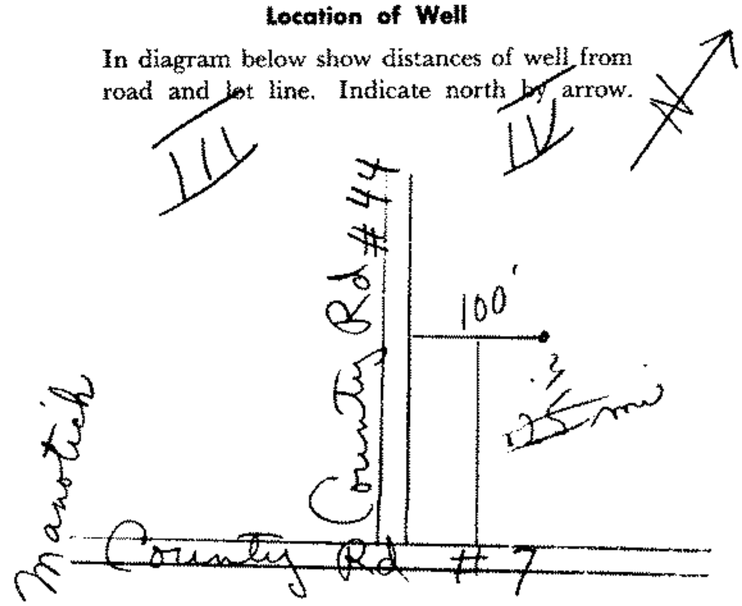
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



The Ontario Water Resources Commission Act

WATER WELL RECORD

316/15a

Water management in Ontario

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

11 | 1510978 | MUNICIP. 15002 | CON. RF | C 04

COUNTY OR DISTRICT: Carleton
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Gloucester
CON., BLOCK, TRACT, SURVEY, ETC.: 4 R.F.
LOT: 030
[redacted] Box 419 Manotick
DATE COMPLETED: DAY 20 MO. 11 YR. 70
RING: 012920 | RC: 4 | ELEVATION: 0338 | RC: 4 | BASIN CODE: 251

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
Brown	Clay	Silt	Loose	0	19
Grey	Gravel	Boulder	Hard	19	30
Grey	Clay	Stones	Hard	30	53
Grey	Lime Stone			53	87

31 | 001900504 | 003021113 | 005320512 | 008721S1

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
087	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	54
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		54	87
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

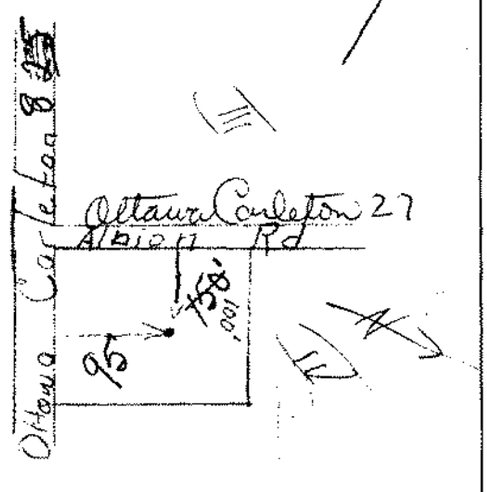
PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER
PUMPING RATE: 0012 GPM
DURATION OF PUMPING: 02 HOURS 00 MINS
☒ PUMPING ☐ RECOVERY

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
020 FEET	055 FEET	055 FEET	055 FEET	055 FEET	055 FEET

IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: 1 ☐ CLEAR 2 ☒ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: 070 FEET
RECOMMENDED PUMPING RATE: 0005 GPM
000.3 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL (54)
1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE (55-56) 01
1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply | LICENCE NUMBER: 1558
ADDRESS: 14 Ashford Dr Ottawa
NAME OF DRILLER OR BORER: L Bellrose | LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: Walter Kavanagh | SUBMISSION DATE: DAY MO YR

OFFICE USE ONLY

DATA SOURCE (58): 1 | CONTRACTOR (59-62): 1558 | DATE RECEIVED (63-66): 0 21270
DATE OF INSPECTION | INSPECTOR
REMARKS
P
WI

OWRC COPY

The Ontario Water Resources Commission Act

WATER WELL RECORD

316/5A South Gloucester 2-18

Water management in Ontario

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

11 | 1512040 | MUNICIP. 15002 | CON. 2-24 | 03

COUNTY OR DISTRICT: Carleton
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Gloucester
CON., BLOCK, TRACT, SURVEY, ETC.: 3 RF
LOT: 030
DATE COMPLETED: DAY 24 MO. 08 YR. 72
[redacted] Albion Rd. Ottawa
13122 | RC 4 | ELEVATION 0338 | RC 4 | BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH FROM	DEPTH TO
Brown	sand	clay	packed	0	4
Brown	sand		packed	4	35
Grey	sand	gravel	packed	35	46
		This is a gravel well			

31 | 0004628905 | 8035628 | 0046928111

32

41 WATER RECORD

WATER FOUND AT — FEET	KIND OF WATER
0046	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH FROM	DEPTH TO
6	1 ☑ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	223	0	46
06				0046
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

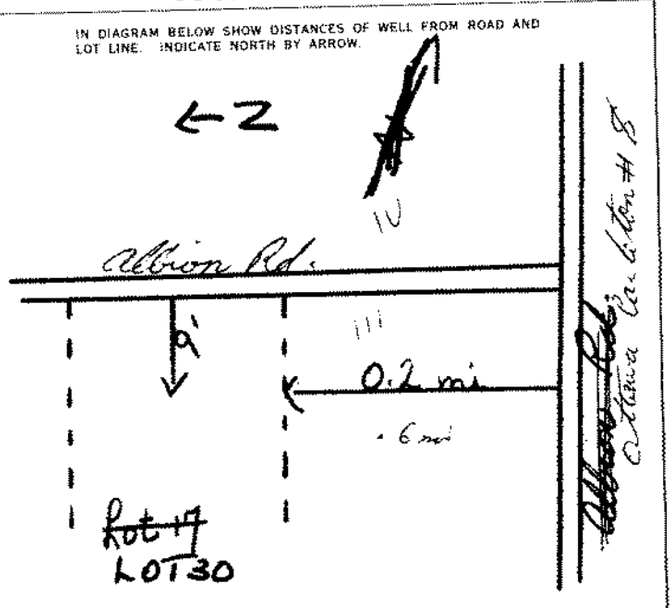
PUMPING TEST METHOD: 1 ☐ PUMP 2 ☑ BAILER
PUMPING RATE: 0020 GPM
DURATION OF PUMPING: 01 HOURS 00 MINS
WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
-00	030 FEET	030 FEET	030 FEET	030 FEET	030 FEET

IF FLOWING, GIVE RATE: 0006 GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: 1 ☐ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☑ SHALLOW ☐ DEEP
RECOMMENDED PUMP SETTING: 030 FEET
RECOMMENDED PUMPING RATE: 005 GPM
GPM./FT. SPECIFIC CAPACITY: 0007

LOCATION OF WELL 1353

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



DRILLERS REMARKS:

FINAL STATUS OF WELL 54: 1 ☑ WATER SUPPLY; 2 ☐ OBSERVATION WELL; 3 ☐ TEST HOLE; 4 ☐ RECHARGE WELL; 5 ☐ ABANDONED, INSUFFICIENT SUPPLY; 6 ☐ ABANDONED, POOR QUALITY; 7 ☐ UNFINISHED

WATER USE 55-56: 05 — 1 ☐ DOMESTIC; 2 ☐ STOCK; 3 ☐ IRRIGATION; 4 ☐ INDUSTRIAL; 5 ☑ COMMERCIAL; 6 ☐ MUNICIPAL; 7 ☐ PUBLIC SUPPLY; 8 ☐ COOLING OR AIR CONDITIONING; 9 ☐ NOT USED; ☐ OTHER

METHOD OF DRILLING 57: 1 ☑ CABLE TOOL; 2 ☐ ROTARY (CONVENTIONAL); 3 ☐ ROTARY (REVERSE); 4 ☐ ROTARY (AIR); 5 ☐ AIR PERCUSSION; 6 ☐ BORING; 7 ☐ DIAMOND; 8 ☐ JETTING; 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. — LICENCE NUMBER: 1558
ADDRESS: Box 490 Stittsville Ont.
NAME OF DRILLER OR BORER: Mike Kavanagh — LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: Mike Kavanagh — SUBMISSION DATE: DAY 28 MO. 8 YR. 72

OWRC COPY

OFFICE USE ONLY

DATA SOURCE 58: 1 — CONTRACTOR 59-62: 1558 — DATE RECEIVED 63-68: 041072
DATE OF INSPECTION: — INSPECTOR:
REMARKS:
P 1
WI

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

3161/5a

Ontario

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

11 | 1515197 | MUNICIP 15002 | CON. RF | 04

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Carleton	Gloucester	4RF	20

[redacted] Box 151 R.R. # 5 Albion Rd. Ottawa, Ontario

DATE COMPLETED: DAY 12 MO 01 YR 76

WATER 013184 | RC 4 | ELEVATION 0338 | FC 4 | BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	sand		frozen	0	3
brown	sand		loose	3	35
black	gravel			35	98
black	limestone		medium hard	98	51
black	limestone			51	73

31: 0003628 | 0035 2877 | 0038811 | 0051 81573 | 0073815

32:

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0070	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06 5/16	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0051
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0073
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER

PUMPING RATE: 0050 GPM | DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY			
-5ft FEET	001 FEET	15 MINUTES: 001 FEET	30 MINUTES: 001 FEET	45 MINUTES: 001 FEET	60 MINUTES: 001 FEET

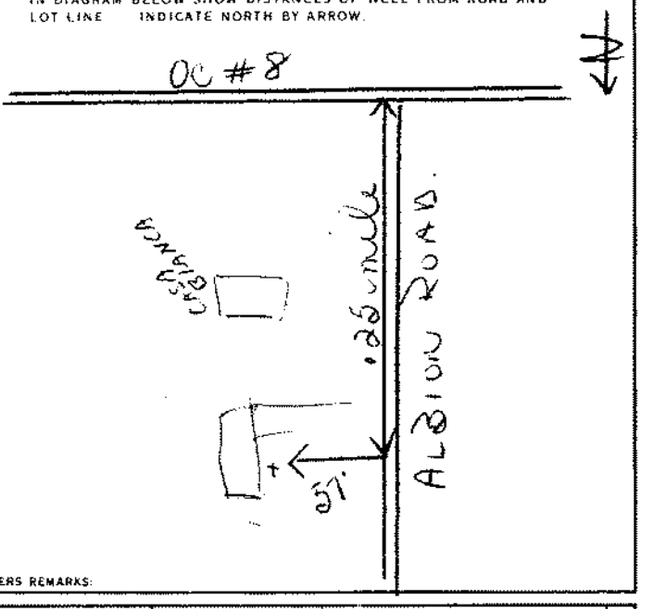
IF FLOWING, GIVE RATE: 0000 GPM | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☒ SHALLOW ☐ DEEP | RECOMMENDED PUMP SETTING: 030 FEET | RECOMMENDED PUMPING RATE: 0005 GPM

GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 5313

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



DRILLERS REMARKS:

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

WATER USE 01 — 1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

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

CONTRACTOR

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

ADDRESS: Box 490 Stittsville, Ontario

NAME OF DRILLER OR BORER: M. Hamilton | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [signature] | SUBMISSION DATE: DAY 14 MO 1 YR 76

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 1558 | DATE RECEIVED 150376

DATE OF INSPECTION 15 Jul 76 | INSPECTOR D/R Doyle

REMARKS:

P

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MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

3165a

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

1517522 MUNICIP. 15002 CON. RF 04

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Gloucester	Conc. 4 R. F.	030 P/Lt.29

[redacted] x 153, Albion Rd., Ottawa, Ontario — DATE COMPLETED: DAY 30 MO 10 YR 80

13099 | 4 | ELEVATION 0340 | RC 4 | BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Sand	Fill	Loose	0	2
Gray	Clay	Sand & Stones	Soft	2	20
Gray	Sand	Boulders	Packed	20	44
Black	Limestone		Medium Soft	44	63

31 | 0002 1280 11 | 0020 2 3281 | 0044 2 6 1 379 | 0063 9 0 5 386
32 |

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0063'	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06 6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0046
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		46	0055
06 5 3/4	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		55	0063

SCREEN

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

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN (FEET)

61 PLUGGING & SEALING RECORD

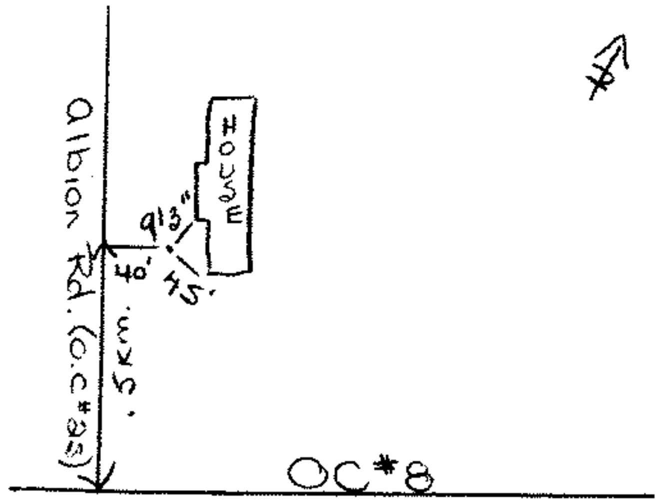
DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	1 ☐ PUMP 2 ☒ BAILER
PUMPING RATE	0030 GPM
DURATION OF PUMPING	01 HOURS 00 MINS
STATIC LEVEL	000 Flowing
WATER LEVEL END OF PUMPING	003 FEET
WATER LEVELS DURING	1 ☒ PUMPING 2 ☐ RECOVERY
15 MINUTES	003 FEET
30 MINUTES	003 FEET
45 MINUTES	003 FEET
60 MINUTES	003 FEET
IF FLOWING, GIVE RATE	GPM
PUMP INTAKE SET AT	FEET
WATER AT END OF TEST	1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE	☒ SHALLOW ☐ DEEP
RECOMMENDED PUMP SETTING	025 FEET
RECOMMENDED PUMPING RATE	0005 GPM

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL	1	1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED
WATER USE	01	1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF DRILLING	1	1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR	Capital Water Supply Ltd.
LICENCE NUMBER	1558
ADDRESS	Box 490, Stittsville, Ontario K0A 3G0
NAME OF DRILLER OR BORER	J. Moore
LICENCE NUMBER	
SIGNATURE OF CONTRACTOR	(signature)
SUBMISSION DATE	DAY 31 MO 10 YR 80

OFFICE USE ONLY

DATA SOURCE	1
CONTRACTOR	1558
DATE RECEIVED	020381
DATE OF INSPECTION	
INSPECTOR	
REMARKS	

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 1532212 Municipality 15002 Con. CON 03

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Ottawa Carleton	Gloucester	3	30

Address: 5668 Island Park Dr. Manotick, ON. K4M 1J5

Date completed: 30 day 08 month 01 year

21 UTM Northing RC Elevation RC Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
Brown	sand		dry	0	3
Grey	sand		wet	3	8
Grey	clay		stickey	8	22
Grey	gravel & boulders		packed	22	45
Grey & white	sandstone		med	45	125

31

32

41 WATER RECORD

Water found at - feet	Kind of water
118	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas — NOT TESTED
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4	1 [X] Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic	.188	0	51
6 1/16	1 Steel 2 Galvanized 3 Concrete 4 [X] Open hole 5 Plastic		51	125
	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic			

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet

Material and type: Depth at top of screen feet

61 PLUGGING & SEALING RECORD

[X] Annular space [ ] Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
51	0	Grouted- bentonite & cement-mix

71 PUMPING TEST

Pumping test method: 1 [X] Pump 2 [ ] Bailer

Pumping rate: 15 GPM

Duration of pumping: 1 Hours Mins

Static level	Water level end of pumping	Water levels during: 1 [X] Pumping 2 [ ] Recovery	15 minutes	30 minutes	45 minutes	60 minutes
16'2" feet	45 feet		120 feet	100 feet	75 feet	45 feet

If flowing give rate: GPM

Pump intake set at: feet

Water at end of test: [ ] Clear [X] Cloudy

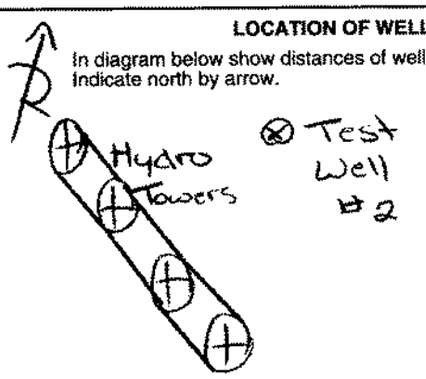
Recommended pump type: [ ] Shallow [X] Deep

Recommended pump setting: 80 feet

Recommended pump rate: 5 GPM

LOCATION OF WELL

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



230234

FINAL STATUS OF WELL

1 [X] Water supply 2 [ ] Observation well 3 [ ] Test hole 4 [ ] Recharge well 5 [ ] Abandoned, insufficient supply 6 [ ] Abandoned, poor quality 7 [ ] Abandoned (Other) 8 [ ] Dewatering 9 [ ] Unfinished 10 [ ] Replacement well

WATER USE

1 [X] Domestic 2 [ ] Stock 3 [ ] Irrigation 4 [ ] Industrial 5 [ ] Commercial 6 [ ] Municipal 7 [ ] Public supply 8 [ ] Cooling & air conditioning 9 [ ] Not use 10 [ ] Other

METHOD OF CONSTRUCTION

1 [ ] Cable tool 2 [ ] Rotary (conventional) 3 [ ] Rotary (reverse) 4 [X] Rotary (air) 5 [X] Air percussion 6 [ ] Boring 7 [ ] Diamond 8 [ ] Jetting 9 [ ] Driving 10 [ ] Digging 11 [ ] Other

Name of Well Contractor	Well Contractor's Licence No.
Capital Water Supply Ltd.	1558

Address: Box 490, Stittsville, Ontario. K2S 1A6

Name of Well Technician	Well Technician's Licence No.
S. Miller	T0097

Signature of Technician/Contractor

Submission date: day 31 mo 8 yr 01

MINISTRY USE ONLY

Data source 58 Contractor 1558 59-62 Date received SEP 17 2001 63-68 80

Date of inspection Inspector

Remarks: OSS.ES1

0506 (07/00) Front Form 9

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Ontario Ministry of the Environment

The Ontario Water Resources Act

WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

1533111

Municipality 15009 Con. CON 04

Plan 4M1123 Sublot 3

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Ottawa Carleton	Osgoode	4	1 & 2

Owner's surname	First Name	Address	Date completed
Ricard Homes		Greely	21 day 08 month 02 year

Zone | Easting | Northing | RC | Elevation | RC | Basin Code | I | II | III | IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
	Sand	blue clay		0	36
grey	Limestone			36	111
Grey	Sandstone			111	140

WATER RECORD

Water found at - feet	Kind of water
133	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas — N Sulfur
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas

CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic	188	0	44
8 3/4	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic		0	42
6	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic		42	140

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet

Material and type | Depth at top of screen feet

PLUGGING & SEALING RECORD

Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
2	44	Cement bentonite

PUMPING TEST

Pumping test method: 1 Pump 2 Bailer | Pumping rate: 15 GPM | Duration of pumping: 1 Hours Mins

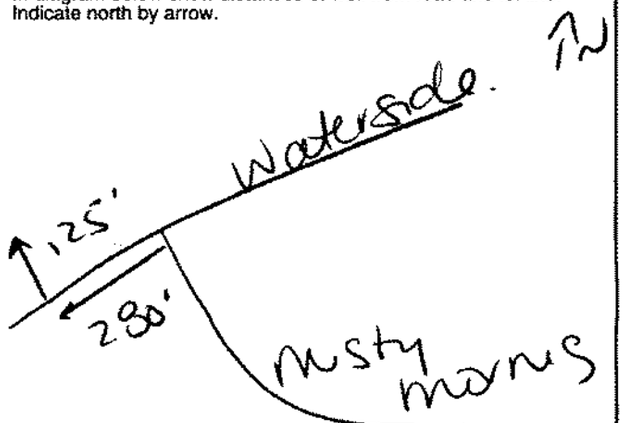
Static level	Water level end of pumping	Water levels during: 1 Pumping 2 Recovery			
12 feet	120 feet	15 minutes: 12 feet	30 minutes: 12 feet	45 minutes: 12 feet	60 minutes: 12 feet

If flowing give rate: GPM | Pump intake set at: feet | Water at end of test: ☐ Clear ☑ Cloudy

Recommended pump type: ☐ Shallow ☑ Deep | Recommended pump setting: 120 feet | Recommended pump rate: 15 GPM

LOCATION OF WELL

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



248092

FINAL STATUS OF WELL

1 ☑ Water supply 2 ☐ Observation well 3 ☐ Test hole 4 ☐ Recharge well 5 ☐ Abandoned, insufficient supply 6 ☐ Abandoned, poor quality 7 ☐ Abandoned (Other) 8 ☐ Dewatering 9 ☐ Unfinished 10 ☐ Replacement well

WATER USE

1 ☑ Domestic 2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial 5 ☐ Commercial 6 ☐ Municipal 7 ☐ Public supply 8 ☐ Cooling & air conditioning 9 ☐ Not use 10 ☐ Other

METHOD OF CONSTRUCTION

1 ☐ Cable tool 2 ☐ Rotary (conventional) 3 ☐ Rotary (reverse) 4 ☐ Rotary (air) 5 ☑ Air percussion 6 ☐ Boring 7 ☐ Diamond 8 ☐ Jetting 9 ☐ Driving 10 ☐ Digging 11 ☐ Other

Name of Well Contractor	Well Contractor's Licence No.
A Rock Drilling	1119
Address: RR#1 Richmond, Ont	
Name of Well Technician: Shannon Purcell	Well Technician's Licence No.: 1212
Signature of Technician/Contractor	Submission date: 09 day 05 mo 02 yr

MINISTRY USE ONLY

Data source	Contractor	Date received
	1119	SEP 16 2002

Date of inspection | Inspector

Remarks

CSS ES2

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0506 (07/00) Front Form 9

Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 — 1533215

Municipality 15009 Con. CON 04

Plan 4M1123 Sublot 5

County or District	Township/Borough/City/Town/Village	Con	block	tract	survey, etc.	Lot
Ottawa Carleton	OSGoode		4			1 2

[redacted]

Address: Greely, Ont

Date completed: 12 (day) 09 (month) 02 (year)

21 — UTM — Northing — RC — Elevation — RC — Basin Code — II — III — IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
	Sand	blue clay, boulders		0	32
grey	Limestone			32	101

31

32

41 WATER RECORD

Water found at - feet	Kind of water
51	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas — NO
64	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas — TESTED
68	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas
	1 Fresh 2 Salty 3 Sulphur 4 Minerals 5 Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic	188	0	44
8 3/4	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic		0	42
6	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic		42	101

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet

Material and type: | Depth at top of screen feet:

61 PLUGGING & SEALING RECORD

Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
2	44	bentonite

71 PUMPING TEST

Pumping test method: 1 Pump 2 Bailer

Pumping rate: 23 GPM

Duration of pumping: Hours Mins

Water levels during: Pumping Recovery

Static level	Water level end of pumping	15 minutes	30 minutes	45 minutes	60 minutes
5 feet	65 feet	5 feet	5 feet	5 feet	5 feet

If flowing give rate: GPM

Pump intake set at: feet

Water at end of test: Clear Cloudy

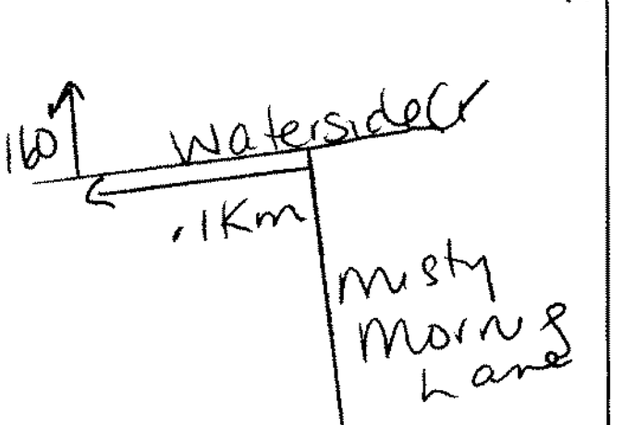
Recommended pump type: Shallow Deep

Recommended pump setting: 65 feet

Recommended pump rate: 23 GPM

LOCATION OF WELL

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



248146

FINAL STATUS OF WELL

1 Water supply 2 Observation well 3 Test hole 4 Recharge well 5 Abandoned, insufficient supply 6 Abandoned, poor quality 7 Abandoned (Other) 8 Dewatering 9 Unfinished 10 Replacement well

WATER USE

1 Domestic 2 Stock 3 Irrigation 4 Industrial 5 Commercial 6 Municipal 7 Public supply 8 Cooling & air conditioning 9 Not use 10 Other

METHOD OF CONSTRUCTION

1 Cable tool 2 Rotary (conventional) 3 Rotary (reverse) 4 Rotary (air) 5 Air percussion 6 Boring 7 Diamond 8 Jetting 9 Driving 10 Digging 11 Other

Name of Well Contractor	Well Contractor's Licence No.
Arkon Drilling Ltd	1119
Address: RR#1 Richmond, Ont	
Name of Well Technician: Shannon Purcell	Well Technician's Licence No.: T2122
Signature of Technician/Contractor	Submission date: 27 (day) 09 (mo) 02 (yr)

MINISTRY USE ONLY

Data source	Contractor	Date received
	1119	OCT 10 2002

Date of inspection: | Inspector:

Remarks: CSS.ES2

0506 (07/00) Front Form 9

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Ontario — Ministry of the Environment

Measurements recorded in: [X] Metric [ ] Imperial

Well Tag No: A 066515

A066515

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

6693 Pebble Trail — Grenville PLS — 4

County/District/Municipality: Ottawa Carlton — City/Town/Village: Osgoode — Province: Ontario — Postal Code:

UTM Coordinates: Zone — Easting — Northing — Municipal Plan and Sublot Number — Other

NAD 8 3 — 18 453546 5013185 — 4M-1306 S/L 12

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	Sand and gravel & Boulders			0	6.10
Grey	Limestone			6.10	33.53

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
1.92	4.88	Neat Cement Slurry	.227
4.88	0	Bentonite Slurry	.245

Method of Construction

[ ] Cable Tool [ ] Diamond [ ] Rotary (Conventional) [ ] Jetting [ ] Rotary (Reverse) [ ] Driving [ ] Boring [ ] Digging [X] Air percussion [ ] Other, specify

Well Use

[ ] Public [ ] Commercial [ ] Not used [X] Domestic [ ] Municipal [ ] Dewatering [ ] Livestock [ ] Test Hole [ ] Monitoring [ ] Irrigation [ ] Cooling & Air Conditioning [ ] Industrial [ ] Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
15.88	Steel	.48	+6	6.10
15.23	Open hole		6.10	33.53

Status of Well

[X] Water Supply [ ] Replacement Well [ ] Test Hole [ ] Recharge Well [ ] Dewatering Well [ ] Observation and/or Monitoring Hole [ ] Alteration (Construction) [ ] Abandoned, Insufficient Supply [ ] Abandoned, Poor Water Quality [ ] Abandoned, other, specify [ ] Other, specify

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Water Details

Water found at Depth (m/ft)	Kind of Water: [ ] Fresh [X] Untested [ ] Gas [ ] Other, specify
29.87	
Water found at Depth (m/ft)	Kind of Water: [ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify
Water found at Depth (m/ft)	Kind of Water: [ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	33.53	15.23

Results of Well Yield Testing

After test of well yield, water was: [ ] Clear and sand free [ ] Other, specify — NOT TESTED

[X] If pumping discontinued, give reason:

Pump intake set at (m/ft): 24.38

Pumping rate (l/min / GPM): 90

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 4.30

[X] If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 24.38

Recommended pump rate (l/min / GPM): 091

Well production (l/min / GPM): 100

Disinfected? [X] Yes [ ] No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	3.27		4.30
1	3.33	1	3.40
2	3.40	2	3.27
3	3.43	3	
4	3.44	4	
5	3.44	5	
10	4m	10	
15	4.20	15	
20	4.2	20	
25	4.30	25	
30	4.3	30	
40	4.3	40	
50	4.3	50	
60	4.3	60	

Map of Well Location

Please provide a map below following instructions on the back.

6693 Pebble Trail

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor: Air Rock Drilling Co LTD — Well Contractor's Licence No.: 1119

Business Address (Street Number/Name): RR1 — Municipality: Richmond

Province: Ont — Postal Code: K0A2Z0 — Business E-mail Address:

Bus. Telephone No. (inc. area code): 6139382170 — Name of Well Technician (Last Name, First Name): Graham, Ryan

Well Technician's Licence No.: T3484 — Signature of Technician and/or Contractor — Date Submitted: 20080630

Well owner's information package delivered: [X] Yes [ ] No

Date Package Delivered: 20080527

Date Work Completed: 20080527

Ministry Use Only

Audit No.: Z 80759

Received: JUL 15 2008

0506E (12/2007)

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Measurements recorded in: X Metric ☐ Imperial

Well Tag No. A 066936

A066936

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

615 Ballycastle | Gloucester | P/L 29 & 30 | 3

County/District/Municipality: Gloucester

City/Town/Village: Gloucester

Province: Ontario | Postal Code:

UTM Coordinates: NAD 8 3 | Zone: 18 | Easting: 453182 | Northing: 5013472

Municipal Plan and Sublot Number: 4M-1295

Other: S/L 36

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

General Colour	Most Common Material	Other Materials	General Description	Depth (mft) From	Depth (mft) To
Grey	Clay			0	10.36
	Sand			10.36	19.39
Grey	Limestone			19.39	54.86

Annular Space

Depth Set at (mft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (mft³)
20.42	0	Neat Cement Slurry	.7918

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
X Air percussion
☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used
X Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (mft) From	Depth (mft) To
15.88	Steel	.48	+.6	20.42
15.55	open hole		20.42	54.86

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (mft) From	Depth (mft) To

Status of Well

X Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Water Details

Water found at Depth (mft)	Kind of Water: ☐ Fresh X Untested ☐ Gas ☐ Other, specify
51.20	
Water found at Depth (mft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify
Water found at Depth (mft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify

Hole Diameter

Depth (mft) From	To	Diameter (cm/in)
0	54.86	15.55

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, specify NOT TESTED

If pumping discontinued, give reason: X

Pump intake set at (mft): 48.77

Pumping rate (l/min / GPM): 91

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (mft): 7.80

If flowing give rate (l/min / GPM): X

Recommended pump depth (mft): 48.77

Recommended pump rate (l/min / GPM): 91

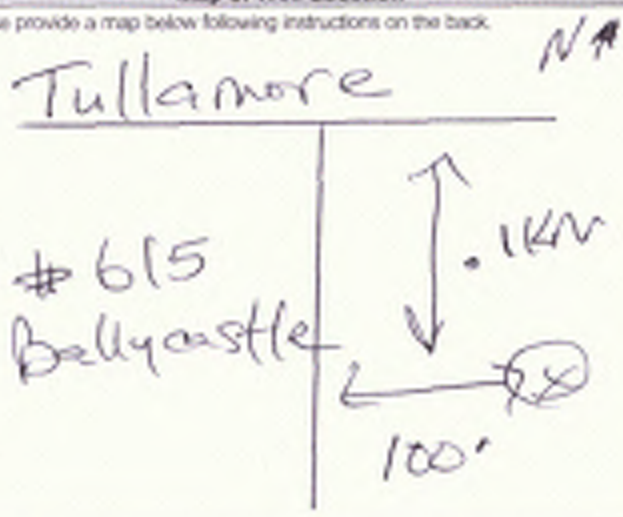
Well production (l/min / GPM): 40

Disinfected? X Yes ☐ No

Draw Down Time (min)	Water Level (mft)	Recovery Time (min)	Water Level (mft)
Static Level	5.78		7.80
1	7.15	1	6.00
2	7.32	2	5.94
3	7.40	3	5.92
4	7.44	4	5.91
5	7.45	5	5.90
10	7.50	10	5.86
15	7.54	15	5.88
20	7.56	20	5.88
25	7.58	25	5.86
30	7.60	30	5.86
40	7.62	40	5.85
50	7.64	50	5.84
60	7.80	60	5.84

Map of Well Location

Please provide a map below following instructions on the back. NA



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor: AIR ROCK DRILLING CO LTD

Well Contractor's Licence No.: 1119

Business Address (Street Number/Name): RR 1

Municipality: Richmond

Province: ONT

Postal Code: K0A2Z0

Business E-mail Address:

Bus. Telephone No. (inc. area code): (613)838-2190

Name of Well Technician (Last Name, First Name): Graham, Ryan

Well Technician's Licence No.: T3484

Signature of Technician and/or Contractor: [signature]

Date Submitted: 20080825

Well owner's information package delivered: X Yes ☐ No

Date Package Delivered: 20080818

Date Work Completed: 20080814

Ministry Use Only

Audit No.: Z 82479

SEP 03 2008

Received

0506E (12/2007)

Ministry's Copy

Ontario — Ministry of the Environment

Measurements recorded in: [X] Metric [ ] Imperial

Well Tag No **A075978**

A075978

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

Address of Well Location (Street Number/Name) #620 Ballycastle | Township Rideau Front | Lot 29 | Concession 30 | 3

County/District/Municipality Gloucester | City/Town/Village Gloucester | Province Ontario | Postal Code

UTM Coordinates NAD 8 3 | Zone 18 | Easting 453132 | Northing 5013345 | Municipal Plan and Subdivision Number Plan 4M-1275 S/L 31 | Other

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	Sand clay & Gravel			0	10.97
Grey	Sandstone			10.97	30.48

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
14.02	0	Neat Cement Slurry	.1656

Method of Construction

[ ] Cable Tool [ ] Diamond [ ] Rotary (Conventional) [ ] Jetting [ ] Rotary (Reverse) [ ] Driving [ ] Boring [ ] Digging [X] Air percussion [ ] Other, specify

Well Use

[ ] Public [ ] Commercial [ ] Not used [X] Domestic [ ] Municipal [ ] Dewatering [ ] Livestock [ ] Test Hole [ ] Monitoring [ ] Irrigation [ ] Cooling & Air Conditioning [ ] Industrial [ ] Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
15.88	Steel	.48	+1.6	14.02
15.09	open hole		14.02	30.48

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

[X] Water Supply [ ] Replacement Well [ ] Test Hole [ ] Recharge Well [ ] Dewatering Well [ ] Observation and/or Monitoring Hole [ ] Alteration (Construction) [ ] Abandoned, Insufficient Supply [ ] Abandoned, Poor Water Quality [ ] Abandoned, other, specify [ ] Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water: [ ] Fresh [X] Untested [ ] Gas [ ] Other, specify
26.57	
28.35	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	30.48	15.09

Results of Well Yield Testing

After test of well yield, water was: [ ] clear and sand free [ ] other, specify NOT TESTED

If pumping discontinued, give reason: X

Pump intake set at (m/ft) 29.38

Pumping rate (l/min / GPM) 91

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft) 5.35

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft) 24.38

Recommended pump rate (l/min / GPM) 91

Well production (l/min / GPM) 30

Disinfected? [X] Yes [ ] No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	2.00		5.35
1	3.60	1	2.10
2	4.25	2	2.02
3	4.70	3	1
4	4.90	4	
5	5.00	5	
10	5.30	10	
15	5.35	15	
20	5.35	20	
25	5.35	25	
30	5.35	30	
40	5.35	40	
50	5.35	50	
60	5.35	60	

Map of Well Location

Please provide a map below following instructions on the back.

NT

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor: AIR ROCK DRILLING CO LTD | Well Contractor's Licence No. 1119

Business Address (Street Number/Name): RR1 | Municipality: Richmond

Province: ONT | Postal Code: K0A 2Z0 | Business E-mail Address

Bus. Telephone No. (inc. area code): 613 838 2170 | Name of Well Technician (Last Name, First Name): Hogan, Dan

Well Technician's Licence No.: T3058 | Signature of Technician and/or Contractor | Date Submitted: 20080825

Well owner's information package delivered: [X] Yes [ ] No

Date Package Delivered: 20080814

Date Work Completed: 20080808

Ministry Use Only

Audit No. Z 82489

SEP 03 2008

Reviewed

0506E (12/2007)

Ministry's Copy

Ontario Ministry of the Environment

Well Tag No **A076017** A076017

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Measurements recorded in: [X] Metric [ ] Imperial

[redacted]

Address of Well Location	Township	Lot	Concession
#624 Ballycastle	Rideau Front	Pt L29&30	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Gloucester	Gloucester	Ontario	

UTM Coordinates Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83 18	453149	5013314	Plan 4M-1275 S/L 32	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	Sand clay and Gravel			0	10.97
Grey	Sandstone			10.97	30.48

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
14.02	0	Neat Cement Slurry	.6356

Results of Well Yield Testing

After test of well yield, water was: [ ] Clear and sand free [ ] Other, specify — NOT TESTED

If pumping discontinued, give reason: (crossed out)

Pump intake set at (m/ft): 24.38

Pumping rate (l/min / GPM): 75.82

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 22.10

If flowing give rate (l/min / GPM): (crossed out)

Recommended pump depth (m/ft): 24.38

Recommended pump rate (l/min / GPM): 75.82

Well production (l/min / GPM): 18 (GPM circled)

Disinfected? [X] Yes [ ] No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	6.30		22.10
1	9.60	1	16.67
2	11.27	2	15.02
3	12.02	3	13.42
4	13.04	4	12.36
5	13.92	5	11.46
10	17.00	10	10.27
15	18.70	15	8.46
20	19.60	20	8.10
25	20.25	25	6.98
30	20.95	30	6.30
40	21.37	40	↓
50	21.80	50	
60	22.10	60	

Method of Construction

[ ] Cable Tool [ ] Diamond [ ] Rotary (Conventional) [ ] Jetting [ ] Rotary (Reverse) [ ] Driving [ ] Boring [ ] Digging [X] Air percussion [ ] Other, specify

Well Use

[ ] Public [X] Domestic [ ] Livestock [ ] Irrigation [ ] Industrial [ ] Other, specify [ ] Commercial [ ] Municipal [ ] Test Hole [ ] Cooling & Air Conditioning [ ] Not used [ ] Dewatering [ ] Monitoring

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
15.88	steel	.48	+.6	14.02
15.07	openhole		14.02	30.48

Status of Well

[X] Water Supply [ ] Replacement Well [ ] Test Hole [ ] Recharge Well [ ] Dewatering Well [ ] Observation and/or Monitoring Hole [ ] Alteration (Construction) [ ] Abandoned, Insufficient Supply [ ] Abandoned, Poor Water Quality [ ] Abandoned, other, specify [ ] Other, specify

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
(crossed out)				

Water Details

Water found at Depth	Kind of Water
26.52 (m/ft)	[ ] Gas [ ] Other, specify [ ] Fresh [X] Untested
28.35 (m/ft)	[ ] Gas [ ] Other, specify [ ] Fresh [X] Untested
(m/ft)	[ ] Gas [ ] Other, specify [ ] Fresh [ ] Untested

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	30.48	15.07

Map of Well Location

Please provide a map below following instructions on the back.

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor: AIR ROCK DRILLING CO LTD

Well Contractor's Licence No.: 1119

Business Address (Street Number/Name): RR1

Municipality: Richmond

Province: Ont Postal Code: K0A2Z0 Business E-mail Address:

Bus. Telephone No. (inc. area code): 6138382170

Name of Well Technician (Last Name, First Name): Hogan, Dan

Well Technician's Licence No.: T3058 Signature of Technician and/or Contractor [signature] Date Submitted: 20080825

Well owner's information package delivered: [X] Yes [ ] No

Date Package Delivered: 20080811

Date Work Completed: 20080808

Ministry Use Only

Audit No. Z 82488

Received SEP 03 2008

Ontario — the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

A082456

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

Well Location

Address of Well Location (Street Number/Name): #623 Ballycastle Crescent

Township: (Rideau Front) Gloucester Pt Lot 29 & 30 Con 3

Concession:

City/Town/Village: Gloucester

Province: Ontario

Postal Code:

County/District/Municipality: Gloucester

UTM Coordinates: Zone 18 Easting 453211 Northing 5013392

Municipal Plan and Subdivision Number: PLAN 4M-1275

Other: SL 34

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	Grey Clay			0	26'
	Sand, Gravel & Boulders			26'	38'
	Grey Limestone			38'	95'
	Grey Sandstone & Limestone Mix			95'	140'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
48'	0	Neat Cement Slurry	28 SK

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☒ Air percussion ☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used ☒ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6"	Steel	.188"	+2'	48'
6"	Open Hole		48'	140'

Status of Well

☒ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ☐ Other, specify

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Water Details

Water found at Depth (m/ft)	Kind of Water	Hole Diameter Depth From	Depth To	Diameter (cm/in)
98'	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify	0	140'	6"
132'	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify			
	☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify			

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify TESTED

If pumping discontinued, give reason: X

Pump intake set at (m/ft): 120

Pumping rate (l/min / GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 87' 1"

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): (2HP) 120'

Recommended pump rate (l/min / GPM): 20

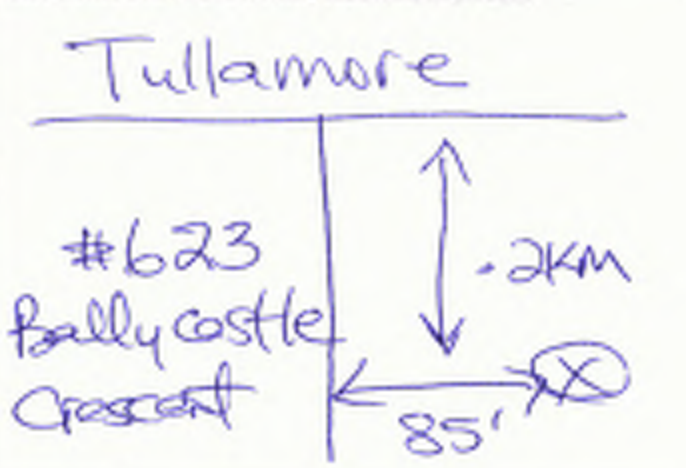
Well production (l/min / GPM): 20

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	13'4"		87'1"
1	21'	1	58'2"
2	27'5"	2	50'8"
3	32'	3	45'5"
4	35'9"	4	41'9"
5	39'1"	5	38'5"
10	50'7"	10	29'1"
15	56'9"	15	20'6"
20	63'3"	20	13'4"
25	66'9"	25	
30	70'7"	30	
40	76'	40	
50	81'5"	50	
60	87'1"	60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor: AIR ROCK DRILLING Co LTD

Well Contractor's Licence No.: 1119

Business Address (Street Number/Name): RR#1

Municipality: RICHMOND

Province: ONT

Postal Code: K0A2Z0

Business E-mail Address:

Bus. Telephone No. (inc. area code): 6138382170

Name of Well Technician (Last Name, First Name): GRAHAM RYAN

Well Technician's Licence No.: T3484

Signature of Technician and/or Contractor: [signature]

Date Submitted: 20090727

Well owner's information package delivered: ☒ Yes ☐ No

Date Package Delivered: 20090709

Date Work Completed: 20090630

Ministry Use Only

Audit No. Z 94718

JUL 30 2009

Received

05088 (12/2007)

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Ontario — the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

[redacted]

Well Location

Address of Well Location (Street Number/Name): #619 Ballycastle Crescent

Township: Gloucester P

Lot: L29&30

Concession: Con 3

County/District/Municipality: Ottawa - Carleton

City/Town/Village: Gloucester

Province: Ontario

Postal Code:

UTM Coordinates: NAD 8 3 | Zone: 18 | Easting: 453201 | Northing: 5013422

Municipal Plan and Subdivision Number: PLAN # 4M-1275

Other: S/L35

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	Gravel			0	4'
	Grey Clay			4'	26'
	Sand, Gravel + Boulders			26'	40'
	Grey limestone			40'	100'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
50'	0	Neat Cement Slurry	29.64

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☒ Air percussion
☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used
☒ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6"	Steel	.188"	+2'	50'
6"	Open hole		50'	100'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☒ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify
56'	
Water found at Depth (m/ft) 93'	Kind of Water: ☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	100'	6"

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify — TESTED

If pumping discontinued, give reason: X

Pump intake set at (m/ft): 80

Pumping rate (l/min / GPM): 20

Duration of pumping: hrs + 0 min

Final water level end of pumping (m/ft): 24'7"

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): (2HP) 80'

Recommended pump rate (l/min / GPM): 20

Well production (l/min / GPM): 20

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	5'6"		24'7"
1	14'9"	1	12'4"
2	17'7"	2	10'0"
3	19'3"	3	8'8"
4	20'1"	4	8'3"
5	20'8"	5	8'0"
10	21'6"	10	6'8"
15	22'5"	15	5'9"
20	23'3"	20	5'6"
25	23'6"	25	
30	23'8"	30	
40	24'1"	40	
50	24'4"	50	
60	24'7"	60	

Map of Well Location

Please provide a map below following instructions on the back.

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor: AirRock Drilling Co Ltd

Well Contractor's Licence No.: 1119

Business Address (Street Number/Name): RR#1

Municipality: Richmond

Province: ONT

Postal Code: K0A2Z0

Business E-mail Address:

Well Technician's Telephone No. (incl. area code): 6138382170

Name of Well Technician (Last Name, First Name): Graham Ryan

Well Technician's Licence No.: T3484

Signature of Technician and/or Contractor:

Date Submitted: 20090727

Well owner's information package delivered: ☒ Yes ☐ No

Date Package Delivered: 20090706

Date Work Completed: 20090630

Ministry Use Only

Audit No.: Z 94719

JUL 30 2009

0506E (12/2007)

Ministry's Copy

Ontario Ministry of the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. (Sticker and/or Plate below) **A 082413**

A082413

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
#627 Ballycastle	Rideau Front	P/L 29+30	Con 3

County/District/Municipality	City/Town/Village	Province	Postal Code
Gloucester	Gloucester	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3	18	453210	5013375	PLAN 4M-1275	S/L 33

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	- Clay & Black Earth			0	8'
	- Clay			8'	30'
	- Sand + Boulders			30'	38'
	- Grey Limestone			38'	103'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
48'	0	Neat Cement Slurry	34.32

Method of Construction

- ☐ Cable Tool
- ☐ Rotary (Conventional)
- ☐ Rotary (Reverse)
- ☐ Boring
- ☒ Air percussion
- ☐ Other, specify
- ☐ Diamond
- ☐ Jetting
- ☐ Driving
- ☐ Digging

Well Use

- ☐ Public
- ☒ Domestic
- ☐ Livestock
- ☐ Irrigation
- ☐ Industrial
- ☐ Other, specify
- ☐ Commercial
- ☐ Municipal
- ☐ Test Hole
- ☐ Cooling & Air Conditioning
- ☐ Not used
- ☐ Dewatering
- ☐ Monitoring

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6"	Steel	.188"	2'+	48'
6"	Open hole		48'	103'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

- ☒ Water Supply
- ☐ Replacement Well
- ☐ Test Hole
- ☐ Recharge Well
- ☐ Dewatering Well
- ☐ Observation and/or Monitoring Hole
- ☐ Alteration (Construction)
- ☐ Abandoned, Insufficient Supply
- ☐ Abandoned, Poor Water Quality
- ☐ Abandoned, other, specify
- ☐ Other, specify

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water	Other, specify
94 (90)	☐	☐ Fresh ☒ Untested	
	☐	☐ Fresh ☐ Untested	
	☐	☐ Fresh ☐ Untested	

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0'	103'	6"

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify — NOT TESTED

If pumping discontinued, give reason: X

Pump intake set at (m/ft): 90

Pumping rate (l/min / GPM): 15

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 85'2"

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): (1/2HP) 90

Recommended pump rate (l/min / GPM): 15

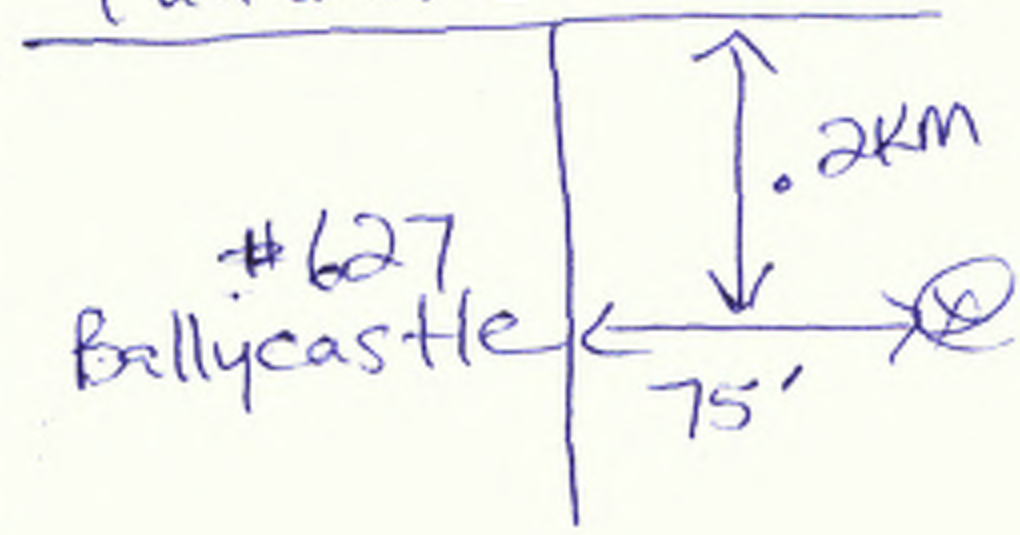
Well production (l/min / GPM): 15

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	13'7"		85'2"
1	20'3"	1	76'4"
2	27'9"	2	72'
3	32'7"	3	58'
4	37'	4	49'
5	40'7"	5	42'
10	54'	10	23'
15	59'9"	15	13'7"
20	63'	20	
25	66'2"	25	
30	69'8"	30	
40	74'9"	40	
50	79'8"	50	
60	85'2"	60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments

Water Contractor and Well Technician Information

Business Name of Well Contractor: AIR ROCK DRILLING CO LTD — Well Contractor's Licence No.: 1119

Business Address (Street Number/Name): RR#1 — Municipality: RICHMOND

Province: ONT — Postal Code: K0A2Z0 — Business E-mail Address:

Bus. Telephone No. (inc. area code): 6138382170 — Name of Well Technician (Last Name, First Name): PURCELL SHANNON

Well Technician's Licence No.: 12122 — Signature of Technician and/or Contractor — Date Submitted: 20090616

Well owner's information package delivered: ☒ Yes ☐ No

Date Package Delivered: 20090519

Date Work Completed: 20090513

Ministry Use Only

Audit No. Z 94643

AUG 03 2009 Received

0506E (12/2007)

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A 095927

Well Tag Number (Place Sticker and/or Print Below): A095927

Well Record

Regulation 903 Ontario Water Resources Act

Page ___ of ___

Measurements recorded in: ☐ Metric ☒ Imperial

[redacted]

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
#616 Ballycastle	Gloucester	P/L 29 & 30	Con 3

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	Gloucester	Ontario	

UTM Coordinates Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3 18	453145	5013389	PLAN 4M-1275	S/L 30

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

General Colour	Most Common Material	Other Materials	General Description	Depth (ft) From	To
	Clay, Gravel & Sand			0'	29'
	Grey Limestone			29'	61'

Annular Space

Depth Set at (ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (ft³)
40'	0'	Neat Cement Slurry	23.4

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify: NOT TESTED

If pumping discontinued, give reason: X

Pump intake set at (ft): 50'

Pumping rate (GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (ft): 5'

If flowing give rate (GPM): X

Recommended pump depth (ft): 50'

Recommended pump rate (GPM): 20

Well production (GPM): 20

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (ft)	Recovery Time (min)	Water Level (ft)
Static Level	3'7"		5'
1	4'	1	3'7"
2	↓	2	
3	4'1"	3	↓
4	↓	4	
5	4'2"	5	
10	4'3"	10	
15	4'4"	15	
20	4'6"	20	
25	4'8"	25	
30	↓	30	
40	↓	40	
50	4'9"	50	
60	5'	60	

Method of Construction

☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☒ Air percussion ☐ Other, specify ☐ Diamond ☐ Jetting ☐ Driving ☐ Digging

Well Use

☐ Public ☒ Domestic ☐ Livestock ☐ Irrigation ☐ Industrial ☐ Other, specify ☐ Commercial ☐ Municipal ☐ Test Hole ☐ Cooling & Air Conditioning ☐ Not used ☐ Dewatering ☐ Monitoring

Construction Record - Casing

Inside Diameter (in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (in)	Depth (ft) From	To
6"	Steel	.188"	+2'	40'
6"	Open hole		40'	61'

Status of Well

☒ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ☐ Other, specify

Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (ft) From	To
X				

Map of Well Location

Please provide a map below following instructions on the back.

Comments:

Water Details

Water found at Depth	Kind of Water
47 (ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, specify
51 (ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, specify
54 (ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, specify

Hole Diameter

Depth (ft) From	To	Diameter (in)
0'	61'	6"

Well Contractor and Well Technician Information

Business Name of Well Contractor: AIR ROCK DRILLING CO LTD

Well Contractor's Licence No.: 1119

Business Address (Street Number/Name): RR#1

Municipality: RICHMOND

Province: ONT

Postal Code: K0A2Z0

Business E-mail Address:

Bus. Telephone No. (inc. area code): 6138382170

Name of Well Technician (Last Name, First Name): HOGAN DAN

Well Technician's Licence No.: T3058

Signature of Technician and/or Contractor

Date Submitted: 20100510

Well owner's information package delivered: ☒ Yes ☐ No

Date Package Delivered: 20100412

Date Work Completed: 20100406

Ministry Use Only

Audit No. Z108312

Received JUN 01 2010

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Ontario — Ministry of the Environment

Measurements recorded in: ☑ Metric ☐ Imperial

Well T **Tag#: A151897** (Below)

A151897

Well Record

Regulation 903 Ontario Water Resources Act

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
660 Ballycastle, Cr	Gloucester	12	
County/District/Municipality	**City/Town/Village**	**Province**	**Postal Code**
Ottawa City	Gloucester.	Ontario	K1X0A2
UTM Coordinates Zone / Easting / Northing	**Municipal Plan and Sublot Number**	**Other**	
NAD 83 18 445315 5013259	4M-1482		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Sand		Soft	0	3.63
Grey	Clay		Soft	3.63	11.51
Grey	SHALE		Pacons	11.51	12.12
Grey	Limestone	Sandstone	Hard	12.12	24.84

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
15.15	0	Cement Grout	6 Bags
		Bentonite 3/8"	4 Bags

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☑ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used
☑ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
25.40	Open Hole		0	15.15
15.55	Steel	0.48	0.60	15.15

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☑ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth	Kind of Water	Other, specify
3.93 (m/ft) ☐ Gas	☑ Fresh ☐ Untested	
Water found at Depth	Kind of Water: ☑ Fresh ☐ Untested	
5.18 (m/ft) ☐ Gas		
Water found at Depth	Kind of Water: ☐ Fresh ☐ Untested	
(m/ft) ☐ Gas		

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0	24.84	15.55

Results of Well Yield Testing

After test of well yield, water was:
☑ Clear and sand free
☐ Other, *specify*

If pumping discontinued, give reason:

Pump intake set at (m/ft): 15.15

Pumping rate (l/min / GPM): 45.00

Duration of pumping: 1 hrs + 00 min

Final water level end of pumping (m/ft): 3.65

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 15.15

Recommended pump rate (l/min / GPM): 45.00

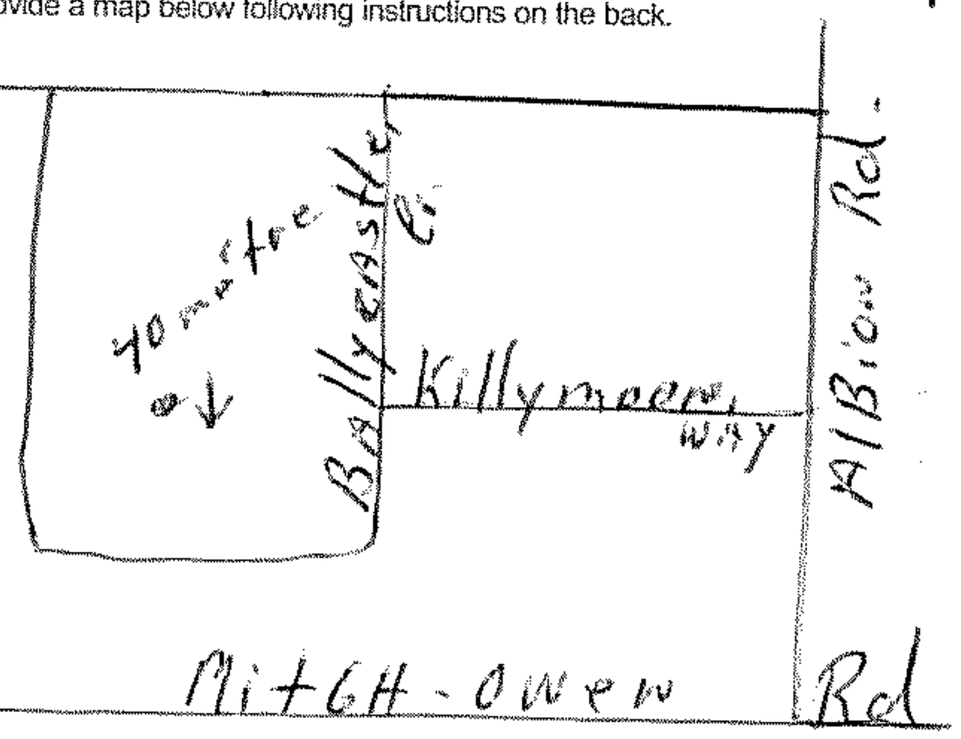
Well production (l/min / GPM): 90.00

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	3.64		3.65
1	3.61	1	3.62
2	3.61	2	3.61
3	3.62	3	3.61
4	3.62	4	3.61
5	3.62	5	3.61
10	3.63	10	3.61
15	3.65	15	3.61
20	3.65	20	3.61
25	3.65	25	3.61
30	3.65	30	3.61
40	3.65	40	3.61
50	3.65	50	3.61
60	3.65	60	3.61

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
DKR water well Drilling	6056
Business Address (Street Number/Name)	**Municipality**
1763 - Route 50 west	Navan
Province	**Postal Code**	**Business E-mail Address**
ON	K0A3C0	
Bus. Telephone No. (inc. area code)	**Name of Well Technician (Last Name, First Name)**
613 822 5578	Desnoyers Louis
Well Technician's Licence No.	**Signature of Technician and/or Contractor**	**Date Submitted**
T625		2013 12 27

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☑ Yes ☐ No	2013 12 17	2013 12 17

Ministry Use Only

Audit No. Z175578

Received FEB 14 2014

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Ontario Ministry of the Environment

Well Record

Regulation 903 Ontario Water Resources Act

Tag #: A167454

A167454

Page ____ of ____

Measurements recorded in: ☐ Metric ☒ Imperial

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	John Gerard Homes		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
PO Box 40	Greely	On	K4N 1A0	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
647 Ballycastle Crescent	Rideau Front	P/L 29420	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	Gloucester	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	453271	5013208	4M-1482	S/L 19

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	Sand			0	8
	Clay	+ Boulders		8	20
	Gravel			20	50
Grey & White	Sandstone	w/ Grey Limestone		50	89
Grey & White	Sandstone	w/ Grey Limestone		89	115
Grey & White	Sandstone	w/ Grey Limestone		115	133
Grey & White	Sandstone	w/ Grey Limestone		133	140

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
60	0	Neat cement	49.9

Results of Well Yield Testing

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

If pumping discontinued, give reason: X

Pump intake set at (m/ft): 130

Pumping rate (l/min / GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 82

If flowing give rate (l/min / GPM): X

Recommended pump depth (m/ft): 100

Recommended pump rate (l/min / GPM): 20

Well production (l/min / GPM): 20 +

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	16.9		82
1	26.5	1	64.4
2	32.9	2	54.8
3	38	3	47
4	42.4	4	40
5	46.1	5	34.6
10	59.8	10	21
15	68.6	15	16.9
20	74.5	20	16.9
25	77.8	25	16.9
30	81	30	16.9
40	85	40	16.9
50	89	50	16.9
60	92	60	16.9

Method of Construction

☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☒ Air percussion ☐ Other, specify ☐ Diamond ☐ Jetting ☐ Driving ☐ Digging

Well Use

☐ Public ☒ Domestic ☐ Livestock ☐ Irrigation ☐ Industrial ☐ Other, specify ☐ Commercial ☐ Municipal ☐ Test Hole ☐ Cooling & Air Conditioning ☐ Not used ☐ Dewatering ☐ Monitoring

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6 1/4"	Steel	.188"	+2	60
6"	Open Hole		60	140

Status of Well

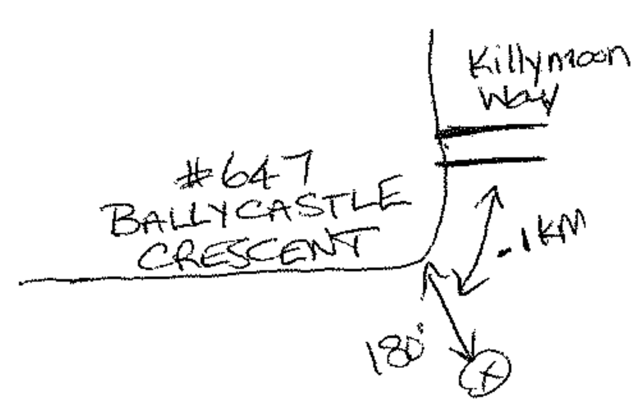
☒ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ☐ Other, specify

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Map of Well Location

Please provide a map below following instructions on the back.



Water Details

Water found at Depth	Kind of Water
89 (m/ft)	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify
115 (m/ft)	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify
133 (m/ft)	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	60	9 3/4"
60	140	6"

Comments: 3/4 HP - 15 GPM SET @ 100 FT

Well Contractor and Well Technician Information

Business Name of Well Contractor: Air Rock Drilling Co. Ltd.

Well Contractor's Licence No.: 1119

Business Address (Street Number/Name): 6659 Franktown Road, RR#1

Municipality: Richmond

Province: ON Postal Code: K0A 2Z0 Business E-mail Address: air-rock@sympatico.ca

Bus. Telephone No. (inc. area code): 6138382170

Name of Well Technician (Last Name, First Name): Hanna, Jeremy

Well Technician's Licence No.: T3632

Signature of Technician and/or Contractor: [signature]

Date Submitted: 2014 11 28 (2014 11 28)

Well owner's information package delivered: ☒ Yes ☐ No

Date Package Delivered: 2014 11 04

Date Work Completed: 2014 10 29

Ministry Use Only

Audit No. Z191300

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Ministry's Copy

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☐ Imperial

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

Tag#: A153560

Well Record

Regulation 903 Ontario Water Resources Act

Page _____ of _____

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
651 bally castle Cres	Gloucester	30	03

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa Carleton	Gloucester	Ontario	K1X0A2

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	753548	4516613	Sublot 20/4M-1482	

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Sand with stones			0	38'
Grey	Fractured	Bedrock		38'	45'
Grey	Med	Bedrock		45'	85'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
45'	0'	6 Bags cement	
		10 Bags Quik grout	

Method of Construction

☐ Cable Tool ☐ Diamond
☒ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used
☒ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
10"	open hole		0	45'
6"	steel	.188	+3	45'
6"	open hole		45'	80'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☒ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, *specify*
☐ Other, *specify*

Water Details

Water found at Depth (m/ft)	Kind of Water	
67'	☒ Fresh ☐ Untested	☐ Gas ☐ Other, *specify*
	☐ Fresh ☐ Untested	☐ Gas ☐ Other, *specify*
	☐ Fresh ☐ Untested	☐ Gas ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)

Results of Well Yield Testing

After test of well yield, water was:
☒ Clear and sand free
☐ Other, *specify* _____

If pumping discontinued, give reason:

Pump intake set at (m/ft): 50 ft

Pumping rate (l/min / GPM): 10 gpm

Duration of pumping: 1 hrs + _____ min

Final water level end of pumping (m/ft): 15.3'

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft): 60'

Recommended pump rate (l/min / GPM): 10 gpm

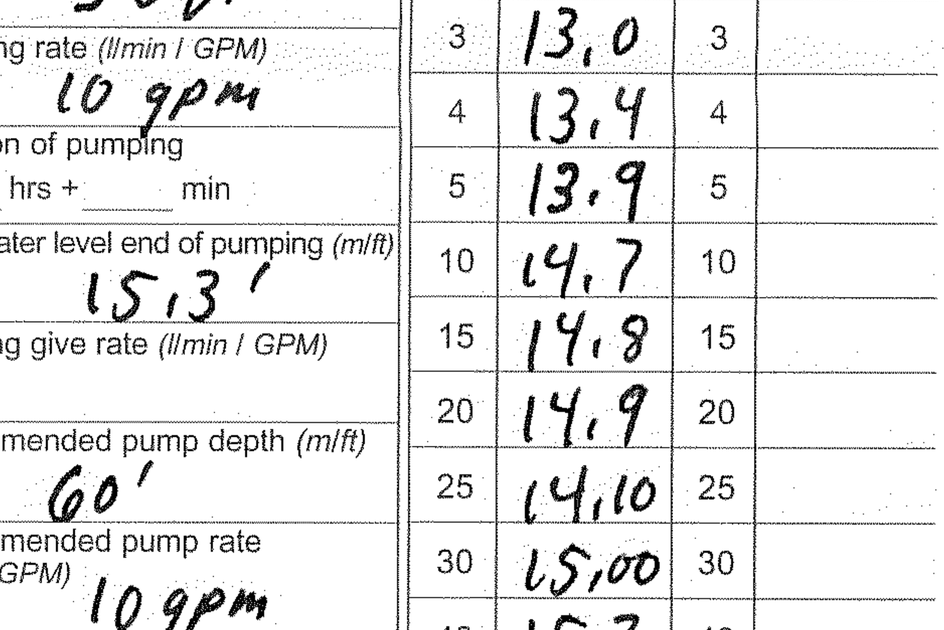
Well production (l/min / GPM): 35

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	12.1		
1	12.4	1	
2	12.7	2	
3	13.0	3	
4	13.4	4	
5	13.9	5	
10	14.7	10	
15	14.8	15	
20	14.9	20	
25	14.10	25	
30	15.00	30	
40	15.3	40	
50	15.3	50	
60	15.3	60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Olympic Drilling Co ltd	4006

Business Address (Street Number/Name)	Municipality
6662 Bank st Metcalfe	

Province	Postal Code	Business E-mail Address
ont	K0A2P0	

Bus.Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6132298371	Wayne Renwick

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
0327	Wayne Renwick	2014 12 20

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	20141220	20141203

Ministry Use Only

Audit No. Z177414

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Ontario — Ministry of the Environment

W Tag#: A187049 (Below)

A187049

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☐ Metric ☒ Imperial

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	Mackie Homes		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
Box 136	Greely	ON	K4P 1N4	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
656 Ballycastle Crescent	Rideau Front	P/L 29+30	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	Gloucester	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	453092	5013252	4M-1482	S/L 13

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	Sand	+	Gravel	0'	40'
Grey & White	Sandstone	W/ Grey	Limestone Mix	40'	68'
Grey & White	Sandstone	W/ Grey	Limestone Mix	68'	99'
Grey & White	Sandstone	W/ Grey	Limestone Mix	99'	133'
Grey & White	Sandstone	W/ Grey	Limestone Mix	133'	140'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
50'	0'	Neat cement	34.3

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☒ Air percussion ☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used ☒ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6 1/4"	Steel	188"	+2'	50'
5 15/16"	Open Hole		50'	140'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☒ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ☐ Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water	
88	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify	
99	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify	
133	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0'	50'	9 3/4"
50'	140'	5 15/16"

Results of Well Yield Testing

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

If pumping discontinued, give reason: X

Pump intake set at (m/ft): 120

Pumping rate (l/min / GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 16'1"

If flowing give rate (l/min / GPM): X

Recommended pump depth (m/ft): 100'

Recommended pump rate (l/min / GPM): 20

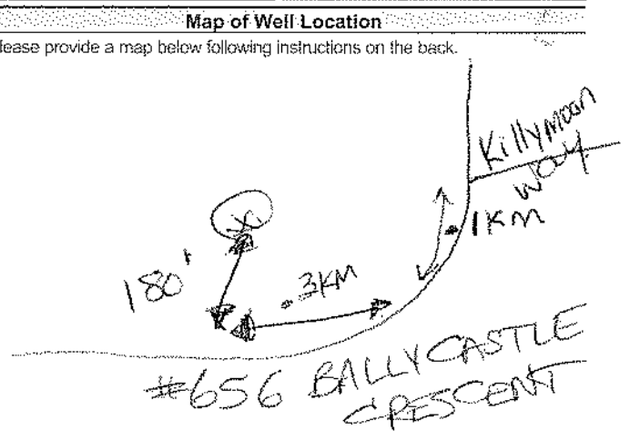
Well production (l/min / GPM): 20+

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	15.3		16'1"
1	15.5	1	15'3"
2	15.5	2	15'3"
3	15.5	3	
4	15.5	4	
5	15.6	5	
10	15.7	10	
15	15.8	15	
20	15.8	20	
25	15.9	25	
30	15.9	30	
40	16.0	40	
50	16.0	50	
60	16.1	60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments: 3/4 HP - 15 GPM SET @ 100 FT

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Air Rock Drilling Co. Ltd.	1119

Business Address (Street Number/Name)	Municipality
6659 Franktown Road, RR#1	Richmond

Province	Postal Code	Business E-mail Address
ON	K0A 2Z0	air-rock@sympatico.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138382170	Hogan, Dan

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T3058		2015 10 30

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☒ Yes ☐ No	2015 09 21	2015 09 17

Ministry Use Only

Audit No. Z 202599

Well Record

Ontario — Ministry of the Environment and Climate Change

Regulation 903 Ontario Water Resources Act

Tag#: A 207695 (Print Below) A207695

Measurements recorded in: ☐ Metric ☒ Imperial

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	1343487 Ontario Ltd.		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
1678 Bank Street.Suite 1	Ottawa	ON	K1V 7Y6	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
6690 Mitch Owens Road	Osgoode	P/L 1	4

County/District/Municipality	City/Town/Village	Province	Postal Code
Ottawa-Carleton	Greely	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	463476	5013048		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (ft) From	Depth (ft) To
	Sand	& Gravel		0'	40'
Grey	Limestone			40'	125'
Grey & White	Sandstone			125'	128'
Grey & White	Sandstone			128'	165'
Grey & White	Sandstone			165'	174'
Grey & White	Sandstone			174'	180'

Annular Space

Depth Set at (ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (ft³)
46'	38'	Neat cement	10.8
38'	0'	Bentonite slurry	26.2

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☒ Air percussion ☐ Other, specify

Well Use

☐ Public ☒ Domestic ☐ Livestock ☐ Irrigation ☐ Industrial ☐ Other, specify ☐ Commercial ☐ Municipal ☐ Test Hole ☐ Cooling & Air Conditioning ☐ Not used ☐ Dewatering ☐ Monitoring

Construction Record - Casing

Inside Diameter (in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (in)	Depth (ft) From	To
6 1/4"	Steel	.188"	+2'	48'
6"	Open Hole		48'	180'

Status of Well

☒ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ☐ Other, specify

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To

Water Details

Water found at Depth	Kind of Water
128 (ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, specify
165 (ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, specify
174 (ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, specify

Hole Diameter

Depth (ft) From	To	Diameter (in)
0'	48'	9 3/4"
48'	180'	6"

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Air Rock Drilling Co. Ltd.	1119

Business Address (Street Number/Name)	Municipality
[illegible]	Richmond

Province	Postal Code	Business E-mail Address
ON	K0A 2Z0	air-rock@sympatico.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138382170	Hogan, Dan

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T3058	[signature]	2016 10 31

Results of Well Yield Testing

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

If pumping discontinued, give reason: X

Pump intake set at (ft): 170

Pumping rate (l/min / GPM): 20

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (ft): 36'2"

If flowing give rate (l/min / GPM): X

Recommended pump depth (ft): 100'

Recommended pump rate (l/min / GPM): 20

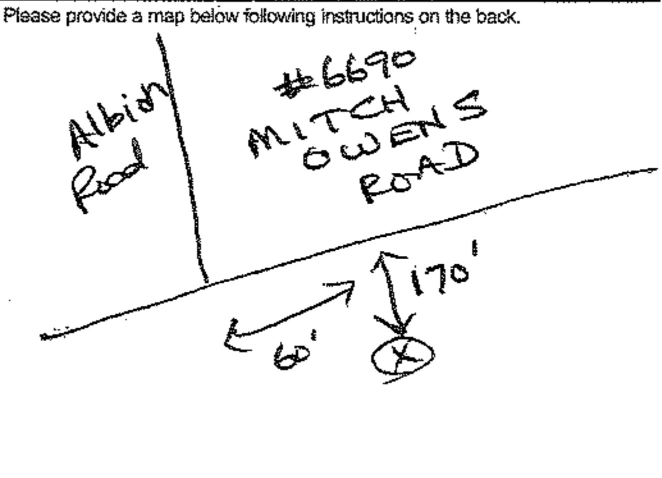
Well production (l/min / GPM): 20

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (ft)	Recovery Time (min)	Water Level (ft)
Static Level	10'4"		36'2"
1	21.3	1	22.5
2	25.6	2	15.6
3	28	3	11.4
4	29.8	4	10.6
5	31.2	5	10.4
10	34.2	10	10.4
15	34.9	15	10.4
20	35.4	20	10.4
25	35.8	25	10.4
30	35.9	30	10.4
40	36	40	10.4
50	36.1	50	10.4
60	36.2"	60	10'4"

Map of Well Location

Please provide a map below following instructions on the back.



Comments: 3/4 HP - 15 GPM SET @ 100 FT

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☒ Yes ☐ No	2016 10 07	2016 10 06

Ministry Use Only

Audit No. Z237048

NOV 28 2016

Received

Office Use Only		
Application Number:	Ward Number:	Application Received: (dd/mm/yyyy):
Client Service Centre Staff:		Fee Received: $

Historic Land Use Inventory

Application Form

Notice of Public Record

All information and materials required in support of your application shall be made available to the public, as indicated by Section 1.0.1 of *The Planning Act*, R.S.O. 1990, C.P.13.

Municipal Freedom of Information and Protection Act

Personal information on this form is collected under the authority the *Planning Act*, RSO 1990, c. P. 13 and will be used to process this application. Questions about this collection may be directed by mail to Manager, Business Support Services, Planning Infrastructure and Economic Development Department, 110 Laurier Avenue West, Ottawa, K1P 1J1, or by phone at (613) 580-2424, ext. 24075

PE4169

Background Information

***Site Address or Location:** *5505 and 5545 Albion Road, Ottawa ON*

** Mandatory Field*

Applicant/Agent Information:

Name: *Mandy Witteman*

Mailing Address: *154 Colonnade Road S, Ottawa ON*

Telephone: *613-226-7381* Email Address: *mwitteman@patersongroup.ca*

Registered Property Owner Information: ☐ Same as above

Name: *W.O Stinson & Sons Ltd. (John Armstrong)*

Mailing Address: *4728 Bank St Ottawa K1T 3W7*

Telephone: *6138227400* Email Address: jarmstrong@stinson.com

Site Details

Legal Description and PIN: *Part of Lot 30, COnesssion 4 From Rideau River*

What is the land currently used for? *Commerical*

Lot frontage: ____ m Lot depth: ____ m Lot area: ____ m²

OR Lot area: (irregular lot) 36180 m²

Does the site have Full Municipal Services: (•) Yes ( ) No

Required Fees

Please don't hesitate to visit the Historic Land Use Inventory website more information. Fees must be paid in full at the time of application submission.

Planning Fee $125.00

Submittal Requirements

The following are required to be submitted with this application:

1. **Consent to Disclose Information:** Consultants and other third parties may make requests for information on behalf of an individual or corporation. However, if the requester is not the owner of the property, **the requester must provide the City of Ottawa with a 'consent to disclose information' letter, signed by the property owner.** This will authorize the City of Ottawa to release any relevant information about the property or its owner(s) to the requester. Consent for disclosure is required in the event that personal information or proprietary company information is found concerning the property and its owner. All consents must clearly indicate the name of the property owner as well as the name of the requester, and must be signed and dated.
2. **Disclaimer:** Requesters must read and understand the conditions included in the attached disclaimer and submit a signed disclaimer to the City of Ottawa's Planning, Infrastructure and Economic Development Department. This disclaimer is related to the Historic Land Use Inventory and must be received by the City of Ottawa, signed and dated by the requestor, before the process can begin.
3. **A site plan or key plan of the property, its location and particular features.**
4. **Any significant dates or time frames that you would like researched.**

Disclaimer
For use with HLUI Database

CITY OF OTTAWA ("the City") is the owner of the Historical Land Use Inventory ("HLUI"), a database of information on the type and location of land uses within the geographic area of Ottawa, which had or have the potential to cause contamination in soil, groundwater or surface water.

The City, in providing information from the HLUI, to Paterson Group ("the Requester") does so only under the following conditions and understanding:

1. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

2. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information provided by the City to the Requester is provided on the assumption that it will not be relied upon by any person whatsoever. The City denies all liability to any such persons attempting to rely on any information provided from the HLUI database.

3. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.

4. Copyright is reserved to the City.

5. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.

6. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.

7. All information collected under this request and all records provided in response to this request are subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. M.56, as amended.

Signed: 

Dated (dd/mm/yyyy): 7/8/2020

Per: Mandy Witteman

(Please print name)

Title: Consultant

Company: Paterson Group

patersongroup

Consulting Engineers

154 Colonnade Road South
Ottawa, Ontario
Canada K2E 7J5
Tel: (613) 226-7381
Fax: (613) 226-6344

Geotechnical Engineering
Environmental Engineering
Hydrogeology
Geological Engineering
Materials Testing
Building Science
Archaeological Services

www.patersongroup.ca

September 17, 2020
File: PE4169-HLUI

City of Ottawa
110 Laurier Avenue W
Ottawa, Ontario
K1P 1J1

Subject: **Authorization Letter, HLUI Search**
Phase I-Environmental Site Assessment
5505 and 5545 Albion Rad, Ottawa ON

Dear Sir,

Please consider this letter as confirmation that Paterson Group has been retained to conduct a Phase I-Environmental Site Assessment at the aforementioned property.

With this letter, the property owner authorizes the City of Ottawa and other regulatory bodies to release, to Paterson Group, information requested for the purpose of completing an environmental assessment of the property.

Name of Company/Property Owner: W. O. STINSON & SONS LTD

Name of Representative John Armstrong

Signature of Representative

Date Sept 18/2020

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Phase I ESA* *5545 Albion Road* *Ottawa ON J4Y 0B5*
Project No:	*PE4169*
Report Type:	*Standard Report*
Order No:	*20291600014*
Requested by:	*Paterson Group Inc.*
Date Completed:	*September 21, 2020*

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

Table of Contents

Executive Summary

Property Information:

Project Property:	*Phase I ESA* *5545 Albion Road Ottawa ON J4Y 0B5*
Project No:	*PE4169*

Coordinates:

Latitude:	*45.2712161*
Longitude:	*-75.5938563*
UTM Northing:	*5,013,251.30*
UTM Easting:	*453,416.39*
UTM Zone:	*18T*

Elevation:	*338 FT* *102.88 M*

Order Information:

Order No:	*20291600014*
Date Requested:	*September 16, 2020*
Requested by:	*Paterson Group Inc.*
Report Type:	*Standard Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	*Abandoned Aggregate Inventory*	Y	0	0	0
AGR	*Aggregate Inventory*	Y	0	0	0
AMIS	*Abandoned Mine Information System*	Y	0	0	0
ANDR	*Anderson's Waste Disposal Sites*	Y	0	0	0
AST	*Aboveground Storage Tanks*	Y	0	0	0
AUWR	*Automobile Wrecking & Supplies*	Y	0	0	0
BORE	*Borehole*	Y	0	3	3
CA	*Certificates of Approval*	Y	4	1	5
CDRY	*Dry Cleaning Facilities*	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 Sites*	Y	0	0	0
CONV	*Compliance and Convictions*	Y	0	0	0
CPU	*Certificates of Property Use*	Y	0	0	0
DELISTED TANK	*Delisted Fuel Tanks*	Y	0	3	3
DRL	*Drill Hole Database*	Y	0	0	0
EASR	*Environmental Activity and Sector Registry*	Y	0	0	0
EBR	*Environmental Registry*	Y	1	0	1
ECA	*Environmental Compliance Approval*	Y	5	1	6
EEM	*Environmental Effects Monitoring*	Y	0	0	0
EHS	*ERIS Historical Searches*	Y	1	4	5
EIIS	*Environmental Issues Inventory System*	Y	0	0	0
EMHE	*Emergency Management Historical Event*	Y	0	0	0
EPAR	*Environmental Penalty Annual Report*	Y	0	0	0
EXP	*List of Expired Fuels Safety Facilities*	Y	0	0	0
FCON	*Federal Convictions*	Y	0	0	0
FCS	*Contaminated Sites on Federal Land*	Y	0	0	0
FOFT	*Fisheries & Oceans Fuel Tanks*	Y	0	0	0
FRST	*Federal Identification Registry for Storage Tank Systems (FIRSTS)*	Y	0	0	0
FST	*Fuel Storage Tank*	Y	3	6	9
FSTH	*Fuel Storage Tank - Historic*	Y	2	2	4
GEN	*Ontario Regulation 347 Waste Generators Summary*	Y	1	3	4
GHG	*Greenhouse Gas Emissions from Large Facilities*	Y	0	0	0
HINC	*TSSA Historic Incidents*	Y	0	1	1
IAFT	*Indian & Northern Affairs Fuel Tanks*	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	Fuel Oil Spills and Leaks	Y	0	2	2
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	Pipeline Incidents	Y	0	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	2	2
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	3	3
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	13	13
	Total:		17	44	61

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EBR	Vanson Construction Limited	5545 Albion Road Gloucester Ontario K1X 1A2 Various construction sites around the Ottawa-Carlton Region. Gloucester ON	-/0.0	-0.03	23
1	FSTH	VANSON CONSTRUCTION LTD	5545 ALBION RD GLOUCESTER ON K1X 1A2	-/0.0	-0.03	23
1	FSTH	VANSON CONSTRUCTION LTD	5545 ALBION RD GLOUCESTER ON K1X 1A2	-/0.0	-0.03	24
1	CA	Vanson Construction Limited	5545 Albion Road Gloucester ON K1X 1A2	-/0.0	-0.03	24
1	CA	Vanson Construction Limited	5545 Albion Road Gloucester ON K1X 1A2	-/0.0	-0.03	24
1	CA	Vanson Construction Limited	5545 Albion Rd Ottawa ON	-/0.0	-0.03	25
1	CA	Vanson Construction Limited	5545 Albion Rd Ottawa ON	-/0.0	-0.03	25
1	FST	VANSON CONSTRUCTION LTD	5545 ALBION RD GLOUCESTER K1X 1A2 ON CA 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA ON	-/0.0	-0.03	25
1	FST	VANSON CONSTRUCTION LTD	5545 ALBION RD GLOUCESTER K1X 1A2 ON CA 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA	-/0.0	-0.03	26

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
			ON			
1	FST	VANSON CONSTRUCTION LTD	5545 ALBION RD GLOUCESTER K1X 1A2 ON CA 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA ON	-/0.0	-0.03	26
1	ECA	Vanson Construction Limited	5545 Albion Rd Ottawa ON K1X 1A2	-/0.0	-0.03	27
1	ECA	Vanson Construction Limited	5545 Albion Road Gloucester ON K1X 1A2	-/0.0	-0.03	27
1	ECA	Vanson Construction Limited	5545 Albion Rd Ottawa ON K1X 1A2	-/0.0	-0.03	28
1	ECA	Vanson Construction Limited	5545 Albion Rd Ottawa ON K1X 1A2	-/0.0	-0.03	28
1	ECA	Vanson Construction Limited	5545 Albion Road Gloucester ON K1X 1A2	-/0.0	-0.03	28
1	GEN	Vanson Construction Ltd.	5545 Albion Road Ottawa ON K1X 1A2	-/0.0	-0.03	28
1	EHS		5545 Albion Rd Ottawa ON K1X1A2	-/0.0	-0.03	29

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	EHS		n/a Ottawa ON	NNW/99.7	-0.28	29
3	WWIS		lot 30 con 4 ON ***Well ID:*** 1510978	S/110.3	-0.03	29
4	BORE		ON	S/110.3	-0.03	33
5	WWIS		lot 30 con 4 ON ***Well ID:*** 1517522	WNW/111.2	-1.00	34
6	WWIS		6693 PEBBLE TRAIL con 4 OSGOODE ON ***Well ID:*** 7108138	ESE/145.6	2.00	38
7	WWIS		647 BALLYCASTLE CRESCENT lot 30 con 3 GLOUCESTER ON ***Well ID:*** 7234834	WSW/151.7	-2.00	44
8	WWIS		639 BALLYCASTE CRESCENT lot 30 con 3 GLOUCESTER ON ***Well ID:*** 7329110	W/158.9	-2.00	52
9	RST	MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER ON K1X 1A8	SW/161.8	-0.97	59
9	CA		5546 Albion Road Ottawa ON K1X 1A8	SW/161.8	-0.97	59
9	FSTH	MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER ON K1X 1A8	SW/161.8	-0.97	60
9	SPL	McEwen's Petroleum Ltd. <UNOFFICIAL>	5546 Albion Road Ottawa ON	SW/161.8	-0.97	60
9	FSTH	MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER ON K1X 1A8	SW/161.8	-0.97	61

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
9	DTNK	MACEWEN PETROLEUM INC***	5546 ALBION RD GLOUCESTER ON	SW/161.8	-0.97	61
9	DTNK	MACEWEN PETROLEUM INC***	5546 ALBION RD GLOUCESTER ON K1X 1A8	SW/161.8	-0.97	61
9	DTNK	MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER ON	SW/161.8	-0.97	62
9	FST	MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON	SW/161.8	-0.97	62
9	FST	MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON	SW/161.8	-0.97	63
9	FST	MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON	SW/161.8	-0.97	63
9	FST	MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON	SW/161.8	-0.97	64
9	FST	MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON	SW/161.8	-0.97	64
9	RST	MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER ON K1X1A8	SW/161.8	-0.97	65
9	ECA	MacEwen Petroleum Inc.	5546 Albion Road Ottawa ON K1X 1A8	SW/161.8	-0.97	65
9	SPL		5546 Albion Road South Ottawa ON	SW/161.8	-0.97	65

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
9	INC	MACEWEN PETROLEUM INC	5546 ALBION RD,,GLOUCESTER,ON,K1X 1A8,CA ON	SW/161.8	-0.97	66
9	INC	MACEWEN PETROLEUM INC	5546 ALBION RD,,GLOUCESTER,ON,K1X 1A8,CA ON	SW/161.8	-0.97	67
9	FST		5546 ALBION RD GLOUCESTER ON K1X 1A8	SW/161.8	-0.97	67
10	WWIS		lot 30 con 4 ON ***Well ID:*** 1515197	NNW/169.2	-1.00	68
11	BORE		ON	NW/177.5	-1.00	71
12	BORE		ON	SSW/178.1	-1.03	72
13	WWIS		lot 30 con 3 ON ***Well ID:*** 1501841	SSW/178.2	-1.03	74
14	SPL	PRIVATE OWNER	ALBION RD. JUST NORTH OF REG. RD. 8 MOTOR VEHICLE (OPERATING FLUID) GLOUCESTER CITY ON	S/178.4	-0.01	78
14	GEN	VANSON CONSTRUCTION LTD.	CORNER OF ALBION ROAD COUNTY ROAD 8 GLOUCESTER ON K0A 1Z0	S/178.4	-0.01	78
14	GEN	VANSON CONSTRUCTION LTD. 40-253	ALBION RD/COUNTY RD. #8, GLOUCESTER C/O RR#2 GREELY ON K0A 1Z0	S/178.4	-0.01	78
14	HINC		CORNER OF ALBION ROAD & MITCH OWENS ROAD OTTAWA ON	S/178.4	-0.01	79
15	WWIS		lot 30 con 3 ON ***Well ID:*** 1512040	WNW/180.2	-0.91	79
16	EHS		6690 Mitch Owens Rd Ottawa ON K4P1M6	SSE/189.0	1.00	82

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	WWIS		635 BILLYCASTLE CRES lot 29 con 3 GLOUCESTER ON ***Well ID:*** 7285357	WNW/201.5	-0.97	82
18	GEN	NOLA TRANS CORP.	5457 ALBION ROAD GLOUCESTER ON K1X 1A2	NNW/206.2	-0.69	89
18	EHS		5457 Albion Rd Gloucester ON K1X 1A2	NNW/206.2	-0.69	90
19	WWIS		6690 MITCH OWENS ROAD lot 1 con 4 GREELY ON ***Well ID:*** 7275892	SSE/216.7	1.00	90
20	EHS		5457 Albion Road Ottawa ON	NNW/224.1	0.03	98
21	WWIS		627 BALLYCASTLE lot 29 con 3 GLOUCESTER ON ***Well ID:*** 7126658	WNW/240.6	-1.00	98
22	WWIS		651 BALLY CASTL;E CRES lot 30 con 3 GLOUCESTER ON ***Well ID:*** 7234935	WSW/243.9	-3.00	105
23	WWIS		623 BALLYCASTLE CRES. lot 29 con 3 GLOUCESTER ON ***Well ID:*** 7126559	WNW/249.0	-1.00	110

Executive Summary: Summary By Data Source

BORE - Borehole

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

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON	S	110.28	4
	ON	NW	177.54	11
	ON	SSW	178.14	12

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 5 CA site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
Vanson Construction Limited	5545 Albion Rd Ottawa ON	-	0.00	1
Vanson Construction Limited	5545 Albion Rd Ottawa ON	-	0.00	1
Vanson Construction Limited	5545 Albion Road Gloucester ON K1X 1A2	-	0.00	1
Vanson Construction Limited	5545 Albion Road Gloucester ON K1X 1A2	-	0.00	1
	5546 Albion Road Ottawa ON K1X 1A8	SW	161.82	9

DELISTED TANK - Delisted Fuel Tanks

A search of the DELISTED TANK database, dated Jul 31, 2020 has found that there are 3 DELISTED TANK site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
MACEWEN PETROLEUM INC***	5546 ALBION RD GLOUCESTER ON K1X 1A8	SW	161.82	9
MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER ON	SW	161.82	9
MACEWEN PETROLEUM INC***	5546 ALBION RD GLOUCESTER ON	SW	161.82	9

EBR - Environmental Registry

A search of the EBR database, dated 1994-Aug 31, 2020 has found that there are 1 EBR site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
Vanson Construction Limited	5545 Albion Road Gloucester Ontario K1X 1A2 Various construction sites around the Ottawa-Carlton Region. Gloucester ON	-	0.00	1

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Aug 31, 2020 has found that there are 6 ECA site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
Vanson Construction Limited	5545 Albion Road Gloucester ON K1X 1A2	-	0.00	1
Vanson Construction Limited	5545 Albion Rd Ottawa ON K1X 1A2	-	0.00	1
Vanson Construction Limited	5545 Albion Road Gloucester ON K1X 1A2	-	0.00	1

Vanson Construction Limited	5545 Albion Rd Ottawa ON K1X 1A2	-	0.00	1
Vanson Construction Limited	5545 Albion Rd Ottawa ON K1X 1A2	-	0.00	1
MacEwen Petroleum Inc.	5546 Albion Road Ottawa ON K1X 1A8	SW	161.82	9

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jul 31, 2020 has found that there are 5 EHS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	6690 Mitch Owens Rd Ottawa ON K4P1M6	SSE	189.05	16
	5457 Albion Road Ottawa ON	NNW	224.06	20

Lower Elevation	Address	Direction	Distance (m)	Map Key
	5545 Albion Rd Ottawa ON K1X1A2	-	0.00	1
	n/a Ottawa ON	NNW	99.73	2
	5457 Albion Rd Gloucester ON K1X 1A2	NNW	206.23	18

FST - Fuel Storage Tank

A search of the FST database, dated Jul 31, 2020 has found that there are 9 FST site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key

VANSON CONSTRUCTION LTD	5545 ALBION RD GLOUCESTER K1X 1A2 ON CA 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA ON	-	0.00	1
VANSON CONSTRUCTION LTD	5545 ALBION RD GLOUCESTER K1X 1A2 ON CA 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA ON	-	0.00	1
VANSON CONSTRUCTION LTD	5545 ALBION RD GLOUCESTER K1X 1A2 ON CA 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA ON	-	0.00	1
	5546 ALBION RD GLOUCESTER ON K1X 1A8	SW	161.82	9
MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON	SW	161.82	9
MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON	SW	161.82	9
MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON	SW	161.82	9
MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON	SW	161.82	9
MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON	SW	161.82	9

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 4 FSTH site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key

VANSON CONSTRUCTION LTD	5545 ALBION RD GLOUCESTER ON K1X 1A2	-	0.00	1
VANSON CONSTRUCTION LTD	5545 ALBION RD GLOUCESTER ON K1X 1A2	-	0.00	1
MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER ON K1X 1A8	SW	161.82	9
MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER ON K1X 1A8	SW	161.82	9

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jul 31, 2020 has found that there are 4 GEN site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
Vanson Construction Ltd.	5545 Albion Road Ottawa ON K1X 1A2	-	0.00	1
VANSON CONSTRUCTION LTD.	CORNER OF ALBION ROAD COUNTY ROAD 8 GLOUCESTER ON K0A 1Z0	S	178.43	14
VANSON CONSTRUCTION LTD. 40-253	ALBION RD/COUNTY RD. #8, GLOUCESTER C/O RR#2 GREELY ON K0A 1Z0	S	178.43	14
NOLA TRANS CORP.	5457 ALBION ROAD GLOUCESTER ON K1X 1A2	NNW	206.23	18

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
	CORNER OF ALBION ROAD & MITCH OWENS ROAD OTTAWA ON	S	178.43	14

INC - Fuel Oil Spills and Leaks

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

Lower Elevation	Address	Direction	Distance (m)	Map Key
MACEWEN PETROLEUM INC	5546 ALBION RD,,GLOUCESTER,ON, K1X 1A8,CA ON	SW	161.82	9
MACEWEN PETROLEUM INC	5546 ALBION RD,,GLOUCESTER,ON, K1X 1A8,CA ON	SW	161.82	9

RST - Retail Fuel Storage Tanks

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

Lower Elevation	Address	Direction	Distance (m)	Map Key
MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER ON K1X1A8	SW	161.82	9
MACEWEN PETROLEUM INC	5546 ALBION RD GLOUCESTER ON K1X 1A8	SW	161.82	9

SPL - Ontario Spills

A search of the SPL database, dated 1988-Nov 2019 has found that there are 3 SPL site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
McEwen's Petroleum Ltd. <UNOFFICIAL>	5546 Albion Road Ottawa ON	SW	161.82	9
	5546 Albion Road South Ottawa ON	SW	161.82	9
PRIVATE OWNER	ALBION RD. JUST NORTH OF REG. RD. 8 MOTOR VEHICLE (OPERATING FLUID) GLOUCESTER CITY ON	S	178.43	14

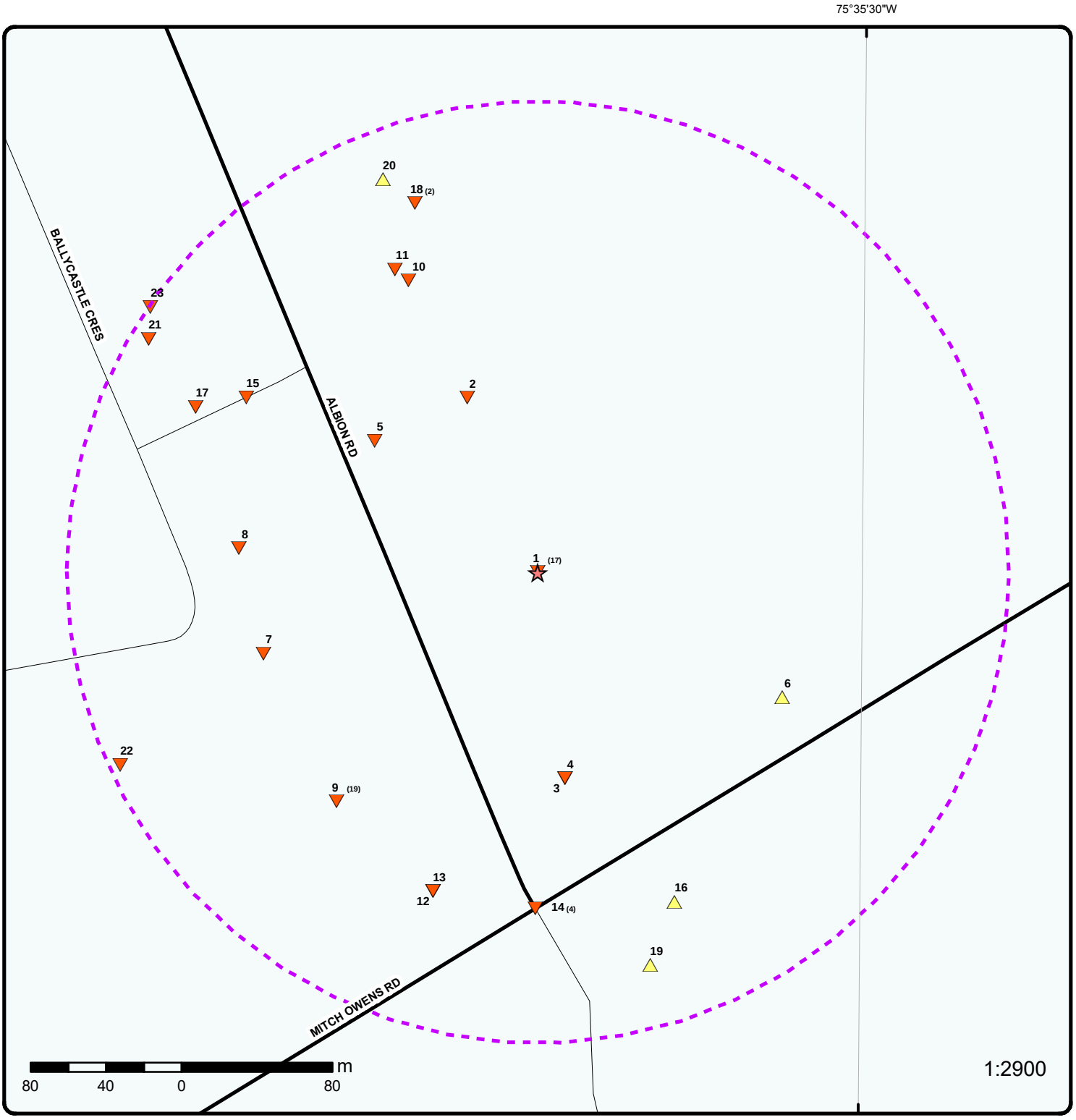
WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 13 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	6693 PEBBLE TRAIL con 4 OSGOODE ON ***Well ID:*** 7108138	ESE	145.59	6
	6690 MITCH OWENS ROAD lot 1 con 4 GREELY ON ***Well ID:*** 7275892	SSE	216.67	19

Lower Elevation	Address	Direction	Distance (m)	Map Key
	lot 30 con 4 ON ***Well ID:*** 1510978	S	110.25	3
	lot 30 con 4 ON ***Well ID:*** 1517522	WNW	111.15	5
	647 BALLYCASTLE CRESCENT lot 30 con 3 GLOUCESTER ON ***Well ID:*** 7234834	WSW	151.70	7
	639 BALLYCASTE CRESCENT lot 30 con 3 GLOUCESTER ON ***Well ID:*** 7329110	W	158.89	8
	lot 30 con 4 ON ***Well ID:*** 1515197	NNW	169.22	10
	lot 30 con 3 ON ***Well ID:*** 1501841	SSW	178.20	13
	lot 30 con 3 ON ***Well ID:*** 1512040	WNW	180.25	15
	635 BILLYCASTLE CRES lot 29 con 3 GLOUCESTER ON ***Well ID:*** 7285357	WNW	201.47	17

627 BALLYCASTLE lot 29 con 3 GLOUCESTER ON ***Well ID:*** 7126658	WNW	240.62	**21**
651 BALLY CASTL;E CRES lot 30 con 3 GLOUCESTER ON ***Well ID:*** 7234935	WSW	243.88	**22**
623 BALLYCASTLE CRES. lot 29 con 3 GLOUCESTER ON ***Well ID:*** 7126559	WNW	248.96	**23**



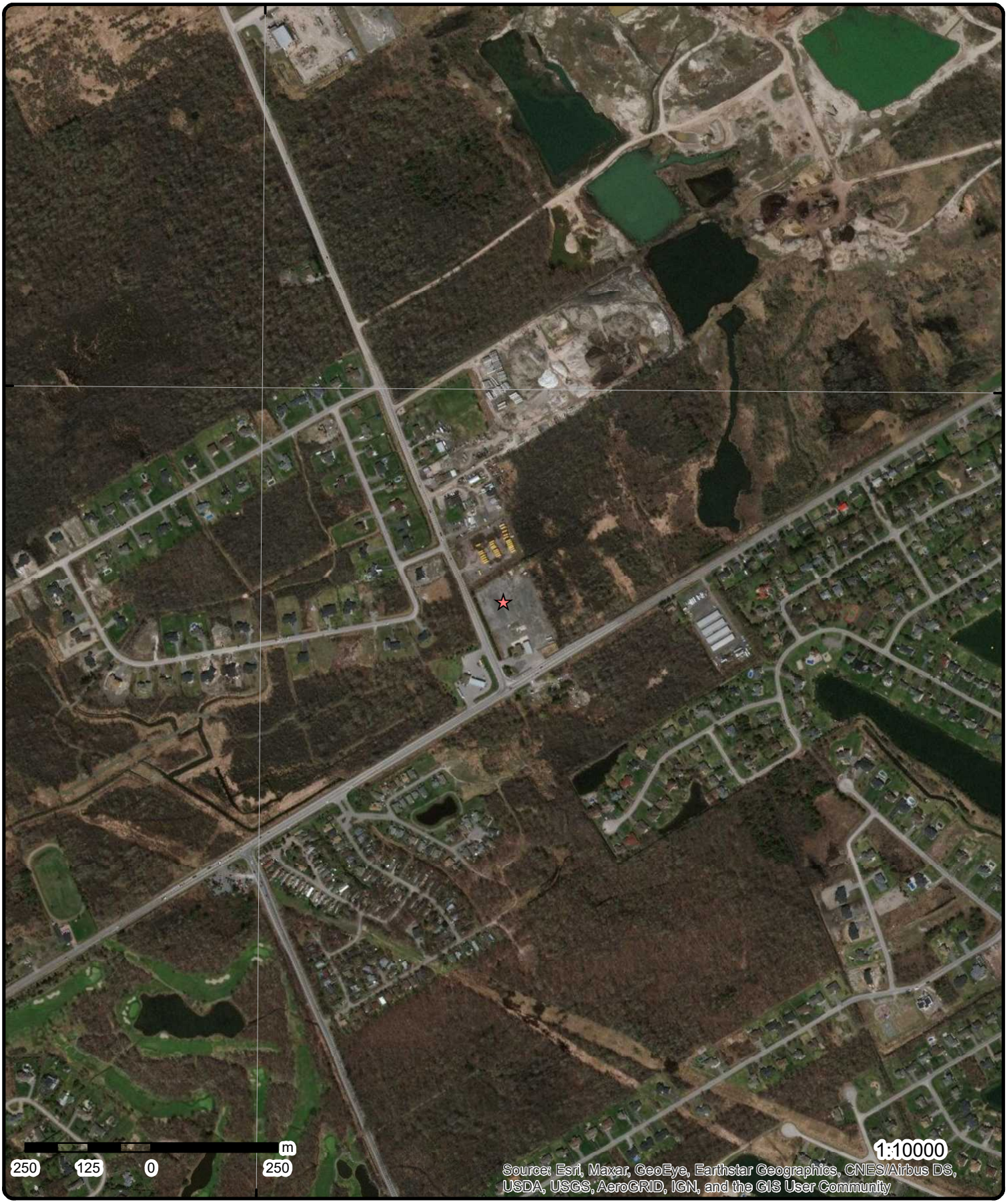
Map : 0.25 Kilometer Radius

Order Number: 20291600014

Address: 5545 Albion Road, Ottawa, ON

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

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



Aerial

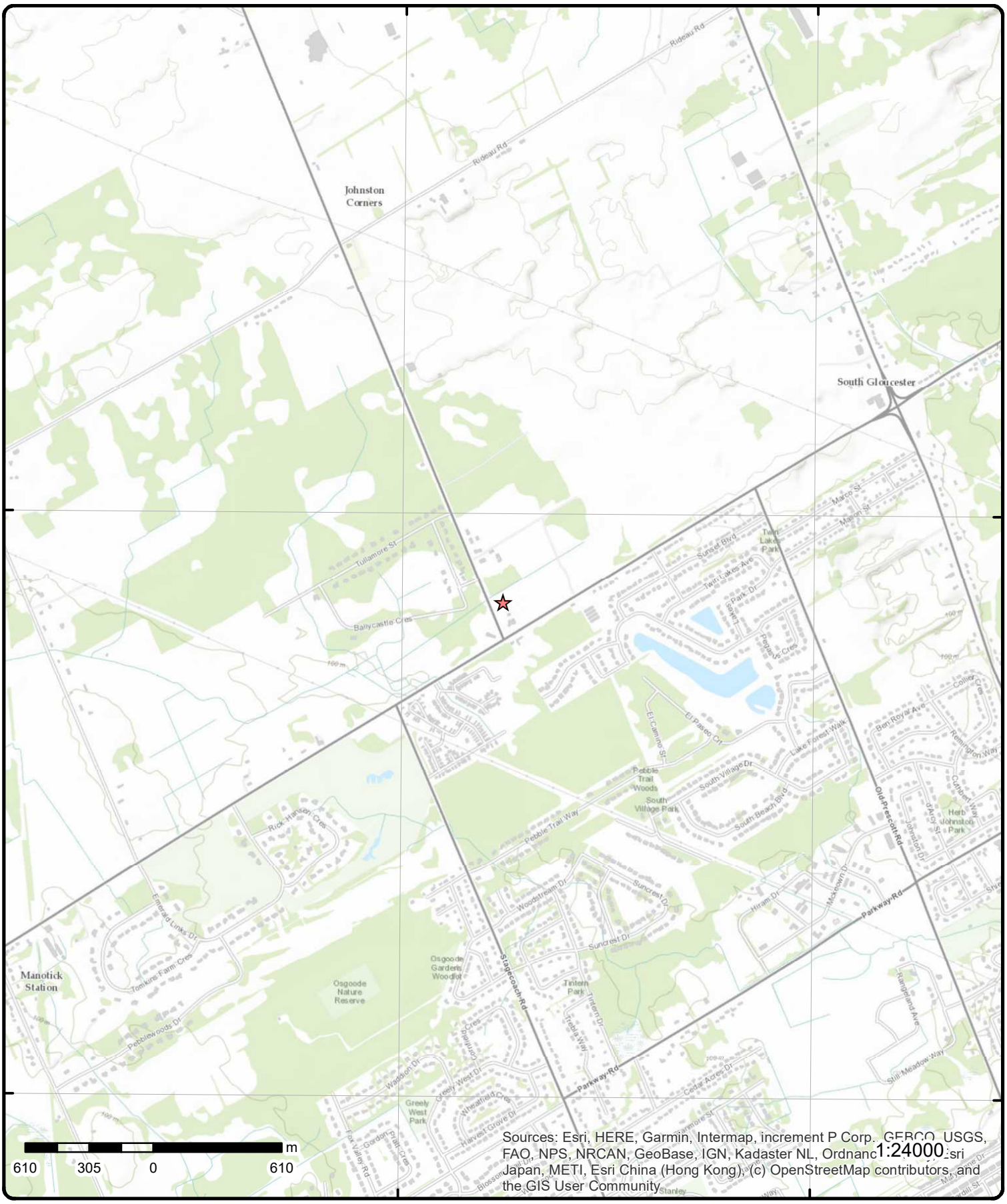
Year: 2019

Address: 5545 Albion Road, Ottawa, ON

Source: ESRI World Imagery

Order Number: 20291600014

ENVIRONMENTAL RISK INFORMATION SERVICES



Topographic Map

Address: 5545 Albion Road, ON

Source: ESRI World Topographic Map

Order Number: 20291600014

ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 17	-/0.0	102.8 / -0.03	Vanson Construction Limited 5545 Albion Road Gloucester Ontario K1X 1A2 Various construction sites around the Ottawa-Carlton Region. Gloucester ON	EBR

EBR Registry No: IT00E0065
Ministry Ref No: 00-172
Notice Type: Instrument Decision
Notice Stage: 800477200
Notice Date: October 06, 2000
Proposal Date: September 05, 2000
Year: 2000
Instrument Type:
Off Instrument Name:
Posted By:
Company Name: Vanson Construction Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 5545 Albion Road, Gloucester Ontario, K1X 1A2
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

5545 Albion Road Gloucester Ontario K1X 1A2 Various construction sites around the Ottawa-Carlton Region. Gloucester

---

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 17	-/0.0	102.8 / -0.03	VANSON CONSTRUCTION LTD 5545 ALBION RD GLOUCESTER ON K1X 1A2	FSTH

License Issue Date: 2/11/2004
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1992
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1992
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active

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

Year of Installation:
Corrosion Protection:
Capacity: 500
Tank Fuel Type: Liquid Fuel Single Wall AST - Diesel

---

1 | ***3 of 17*** | ***-/0.0*** | ***102.8 / -0.03*** | ***VANSON CONSTRUCTION LTD***
5545 ALBION RD
GLOUCESTER ON K1X 1A2 | ***FSTH***

License Issue Date: 2/11/2004 11:15:00 AM
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1992
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1992
Corrosion Protection:
Capacity: 13600
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation:
Corrosion Protection:
Capacity: 500
Tank Fuel Type: Liquid Fuel Single Wall AST - Diesel

---

1 | ***4 of 17*** | ***-/0.0*** | ***102.8 / -0.03*** | ***Vanson Construction Limited***
5545 Albion Road
Gloucester ON K1X 1A2 | ***CA***

Certificate #: 0544-4UZNKR
Application Year: 2001
Issue Date: 5/4/2001
Approval Type: Waste Management Systems
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

1 | ***5 of 17*** | ***-/0.0*** | ***102.8 / -0.03*** | ***Vanson Construction Limited***
5545 Albion Road
Gloucester ON K1X 1A2 | ***CA***

Certificate #: A860462
Application Year: 2001
Issue Date: 5/4/2001

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

Approval Type: Waste Management Systems
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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1 | ***6 of 17*** | ***-/0.0*** | ***102.8 / -0.03*** | ***Vanson Construction Limited***
5545 Albion Rd
Ottawa ON | ***CA***

Certificate #: A860462
Application Year: 2007
Issue Date: 3/13/2007
Approval Type: Waste Management Systems
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

1 | ***7 of 17*** | ***-/0.0*** | ***102.8 / -0.03*** | ***Vanson Construction Limited***
5545 Albion Rd
Ottawa ON | ***CA***

Certificate #: H-8700-15
Application Year: 2008
Issue Date: 12/3/2008
Approval Type: Waste Management Systems
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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1 | ***8 of 17*** | ***-/0.0*** | ***102.8 / -0.03*** | ***VANSON CONSTRUCTION LTD***
5545 ALBION RD GLOUCESTER K1X 1A2 ON CA
5545 ALBION RD GLOUCESTER K1X 1A2 ON CA
ON | ***FST***

Instance No:	11427964	***Manufacturer:***	NULL
Status:	Active	***Serial No:***	NULL
Cont Name:		***Ulc Standard:***	NULL
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	1
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	EA
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Diesel
Tank Type:	Single Wall UST	***Fuel Type2:***	NULL
Install Date:	4/11/1996	***Fuel Type3:***	NULL

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

Install Year:	1992	**Piping Steel:**	
Years in Service:	15	**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	13600	**Num Underground:**	
Tank Material:	Steel	**Panam Related:**	NULL
Corrosion Protect:	Sacrificial anode	**Panam Venue:**	NULL
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Location: 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA
Device Installed Location: 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA

Fuel Storage Tank Details

Owner Account Name: VANSON CONSTRUCTION LTD

Liquid Fuel Tank Details

Overfill Protection: NULL
Owner Account Name: VANSON CONSTRUCTION LTD

1	***9 of 17***	***-/0.0***	***102.8 / -0.03***	***VANSON CONSTRUCTION LTD*** ***5545 ALBION RD GLOUCESTER K1X 1A2 ON CA*** ***5545 ALBION RD GLOUCESTER K1X 1A2 ON CA ON***	***FST***

Instance No:	11427944	**Manufacturer:**	NULL
Status:	Active	**Serial No:**	NULL
Cont Name:		**Ulc Standard:**	NULL
Instance Type:	FS Liquid Fuel Tank	**Quantity:**	1
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	EA
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Single Wall UST	**Fuel Type2:**	NULL
Install Date:	4/11/1996	**Fuel Type3:**	NULL
Install Year:	1992	**Piping Steel:**	
Years in Service:	15	**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	13600	**Num Underground:**	
Tank Material:	Steel	**Panam Related:**	NULL
Corrosion Protect:	Sacrificial anode	**Panam Venue:**	NULL
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Location: 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA
Device Installed Location: 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA

Fuel Storage Tank Details

Owner Account Name: VANSON CONSTRUCTION LTD

Liquid Fuel Tank Details

Overfill Protection: NULL
Owner Account Name: VANSON CONSTRUCTION LTD

1	***10 of 17***	***-/0.0***	***102.8 / -0.03***	***VANSON CONSTRUCTION LTD*** ***5545 ALBION RD GLOUCESTER K1X 1A2 ON CA*** ***5545 ALBION RD GLOUCESTER K1X 1A2 ON CA***	***FST***

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

Instance No: 11613168
Status: Active
Cont Name:
Instance Type: FS Liquid Fuel Tank
Item: FS LIQUID FUEL TANK
Item Description: FS Liquid Fuel Tank
Tank Type: Single Wall Horizontal AST
Install Date: 8/21/2000
Install Year: NULL
Years in Service: 10.6
Model: NULL
Description:
Capacity: 500
Tank Material: Steel
Corrosion Protect: Coating
Overfill Protect:
Manufacturer: NULL
Serial No: NULL
Ulc Standard: NULL
Quantity: 1
Unit of Measure: EA
Fuel Type: Diesel
Fuel Type2: NULL
Fuel Type3: NULL
Piping Steel:
Piping Galvanized:
Tanks Single Wall St:
Piping Underground:
Num Underground:
Panam Related: NULL
Panam Venue: NULL
Facility Type: FS Liquid Fuel Tank
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Location: 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA
Device Installed Location: 5545 ALBION RD GLOUCESTER K1X 1A2 ON CA

Fuel Storage Tank Details

Owner Account Name: VANSON CONSTRUCTION LTD

Liquid Fuel Tank Details

Overfill Protection: NULL
Owner Account Name: VANSON CONSTRUCTION LTD

1	11 of 17	-/0.0	102.8 / -0.03	**Vanson Construction Limited** **5545 Albion Rd** **Ottawa ON K1X 1A2**	ECA

Approval No: H-8700-15
Approval Date: 2014-06-27
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
MOE District: Ottawa
City:
Longitude: -75.59355
Latitude: 45.27092
Geometry X:
Geometry Y:
Approval Type: ECA-WASTE MANAGEMENT SYSTEMS
Project Type: WASTE MANAGEMENT SYSTEMS
Address: 5545 Albion Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0026-9GVL8F-14.pdf

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1	12 of 17	-/0.0	102.8 / -0.03	**Vanson Construction Limited** **5545 Albion Road** **Gloucester ON K1X 1A2**	ECA

Approval No: 0544-4UZNKR
Approval Date: 2001-05-04
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
MOE District: Ottawa
City:
Longitude: -75.59355
Latitude: 45.27092
Geometry X:
Geometry Y:
Approval Type: ECA-WASTE MANAGEMENT SYSTEMS
Project Type: WASTE MANAGEMENT SYSTEMS
Address: 5545 Albion Road

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

Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4764-4TRSJF-14.pdf

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1 **13 of 17** **-/0.0** **102.8 / -0.03** **Vanson Construction Limited** **ECA**
5545 Albion Rd
Ottawa ON K1X 1A2

Approval No:	H-8700-15	**MOE District:**	Ottawa
Approval Date:	2008-12-03	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-75.59355
Record Type:	ECA	**Latitude:**	45.27092
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	

Approval Type: ECA-WASTE MANAGEMENT SYSTEMS
Project Type: WASTE MANAGEMENT SYSTEMS
Address: 5545 Albion Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6291-7KVR6Y-14.pdf

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1 **14 of 17** **-/0.0** **102.8 / -0.03** **Vanson Construction Limited** **ECA**
5545 Albion Rd
Ottawa ON K1X 1A2

Approval No:	A860462	**MOE District:**	Ottawa
Approval Date:	2007-03-13	**City:**	
Status:	Approved	**Longitude:**	-75.59355
Record Type:	ECA	**Latitude:**	45.27092
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	

Approval Type: ECA-WASTE MANAGEMENT SYSTEMS
Project Type: WASTE MANAGEMENT SYSTEMS
Address: 5545 Albion Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9795-6YCJB7-14.pdf

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1 **15 of 17** **-/0.0** **102.8 / -0.03** **Vanson Construction Limited** **ECA**
5545 Albion Road
Gloucester ON K1X 1A2

Approval No:	A860462	**MOE District:**	Ottawa
Approval Date:	2001-05-04	**City:**	
Status:	Approved	**Longitude:**	-75.59355
Record Type:	ECA	**Latitude:**	45.27092
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	

Approval Type: ECA-WASTE MANAGEMENT SYSTEMS
Project Type: WASTE MANAGEMENT SYSTEMS
Address: 5545 Albion Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4468-4TKNTW-14.pdf

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1 **16 of 17** **-/0.0** **102.8 / -0.03** **Vanson Construction Ltd.** **GEN**
5545 Albion Road
Ottawa ON K1X 1A2

Generator No:	ON8797065	**PO Box No:**	
Status:	Registered	**Country:**	Canada
Approval Years:	As of Dec 2017	**Choice of Contact:**	

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

Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221 L
Waste Class Desc: Light fuels

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1 | ***17 of 17*** | ***-/0.0*** | ***102.8 / -0.03*** | ***5545 Albion Rd Ottawa ON K1X1A2*** | ***EHS***

Order No: 20170628035
Status: C
Report Type: Standard Report
Report Date: 04-JUL-17
Date Received: 28-JUN-17
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -75.593484
Y: 45.270875

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2 | ***1 of 1*** | ***NNW/99.7*** | ***102.6 / -0.28*** | ***n/a Ottawa ON*** | ***EHS***

Order No: 20130926036
Status: C
Report Type: Standard Report
Report Date: 07-OCT-13
Date Received: 26-SEP-13
Previous Site Name:
Lot/Building Size: 3.0 acres / 12000 square metres
Additional Info Ordered:
Nearest Intersection:
Municipality: Ottawa /former South Gloucester
Client Prov/State: ON
Search Radius (km): .25
X: -75.594341
Y: 45.272046

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3 | ***1 of 1*** | ***S/110.3*** | ***102.8 / -0.03*** | ***lot 30 con 4 ON*** | ***WWIS***

Well ID: 1510978
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Data Entry Status:
Data Src: 1
Date Received: 12/2/1970
Selected Flag: Yes
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 030
Concession: 04
Concession Name: RF
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510978.pdf

Bore Hole Information

Bore Hole ID:	10032981	***Elevation:***	103.350662
DP2BR:	53	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	453430.8
Code OB Desc:	Bedrock	***North83:***	5013142
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	11/20/1970	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931016354
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	30
Formation End Depth:	53
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931016352
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	19
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931016353
Layer:	2
Color:	2
General Color:	GREY
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	13
Mat2 Desc:	BOULDERS

Mat3:
Mat3 Desc:
Formation Top Depth: 19
Formation End Depth: 30
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931016355
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 53
Formation End Depth: 87
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961510978
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10581551
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930058505
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 54
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930058506
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 87
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID:	991510978
Pump Set At:	
Static Level:	20
Final Level After Pumping:	55
Recommended Pump Depth:	70
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:	2
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934899601
Test Type:	Draw Down
Test Duration:	60
Test Level:	55
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934642260
Test Type:	Draw Down
Test Duration:	45
Test Level:	55
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934097531
Test Type:	Draw Down
Test Duration:	15
Test Level:	55
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934381239
Test Type:	Draw Down
Test Duration:	30
Test Level:	55
Test Level UOM:	ft

Water Details

Water ID:	933466041
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	87
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	1 of 1	S/110.3	102.8 / -0.03	ON	BORE

Borehole ID:	614539	**Inclin FLG:**	No
OGF ID:	215515491	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	NOV-1970	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.270233
Total Depth m:	26.5	**Longitude DD:**	-75.593662
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	453431
Drill Method:		**Northing:**	5013142
Orig Ground Elev m:	103	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	103		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218398696	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	5.8	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY. BROWN.		

Geology Stratum ID:	218398699	**Mat Consistency:**	
Top Depth:	16.2	**Material Moisture:**	
Bottom Depth:	26.5	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Limestone	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	LIMESTONE. GREY. 0008775 BEDROCK. SEISMIC VELOCITY = 17000. 00010014000850140010 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218398697	**Mat Consistency:**	
Top Depth:	5.8	**Material Moisture:**	
Bottom Depth:	9.1	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Gravel	**Geologic Formation:**	
Material 2:	Boulders	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRAVEL. GREY.		

Geology Stratum ID:	218398698	**Mat Consistency:**	
Top Depth:	9.1	**Material Moisture:**	
Bottom Depth:	16.2	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Clay	**Geologic Formation:**	

Material 2:	Stones	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	CLAY. GREY.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:		**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA2.txt RecordID: 07047 NTS_Sheet:		
Confiden 1:			

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

5 ***1 of 1*** ***WNW/111.2*** ***101.9 / -1.00*** ***lot 30 con 4 ON*** ***WWIS***

Well ID:	1517522	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	3/2/1981
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	030
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	RF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1517522.pdf

Bore Hole Information

Bore Hole ID:	10039394	**Elevation:**	104.173301
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	o	**East83:**	453329.8
Code OB Desc:	Overburden	**North83:**	5013321
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/30/1980	**UTMRC Desc:**	margin of error : 30 m - 100 m

Remarks: ***Location Method:*** p4
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931035447
Layer: 3
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 13
Mat2 Desc: BOULDERS
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 20
Formation End Depth: 44
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931035446
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3: 12
Mat3 Desc: STONES
Formation Top Depth: 2
Formation End Depth: 20
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931035448
Layer: 4
Color: 8
General Color: BLACK
Mat1: 05
Most Common Material: CLAY
Mat2: 78
Mat2 Desc: MEDIUM-GRAINED
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 44
Formation End Depth: 63
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	931035445
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	01
Mat2 Desc:	FILL
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	0
Formation End Depth:	2
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961517522
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10587964
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930068899
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	55
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930068898
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	46
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930068900
Layer:	3
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	63
Casing Diameter:	6

Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991517522
Pump Set At:
Static Level: 0
Final Level After Pumping: 3
Recommended Pump Depth: 25
Pumping 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: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934645363
Test Type: Draw Down
Test Duration: 45
Test Level: 3
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934895055
Test Type: Draw Down
Test Duration: 60
Test Level: 3
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934102053
Test Type: Draw Down
Test Duration: 15
Test Level: 3
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934384287
Test Type: Draw Down
Test Duration: 30
Test Level: 3
Test Level UOM: ft

Water Details

Water ID: 933474009
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 63

Water Found Depth UOM: ft

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6 | **1 of 1** | **ESE/145.6** | **104.9 / 2.00** | **6693 PEBBLE TRAIL con 4 OSGOODE ON** | **WWIS**

Well ID:	7108138	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	7/15/2008
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	7
Audit No:	Z80759	**Owner:**	
Tag:	A066515	**Street Name:**	6693 PEBBLE TRAIL
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	OSGOODE TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7108138.pdf

Bore Hole Information

Bore Hole ID:	1001657835	**Elevation:**	103.746871
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	453546
Code OB Desc:		**North83:**	5013185
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	5/27/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1001780156
Layer:	1
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	13
Mat3 Desc:	BOULDERS
Formation Top Depth:	0
Formation End Depth:	6.1
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1001780157
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	6.1
Formation End Depth:	33.53
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001780160
Layer:	2
Plug From:	4.88
Plug To:	0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001780159
Layer:	1
Plug From:	1.92
Plug To:	4.88
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1001780192
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1001780154
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1001780162
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	-6
Depth To:	6.1
Casing Diameter:	.1588
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Casing

Casing ID:	1001780163
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	6.1
Depth To:	33.53
Casing Diameter:	15.23
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1001780164
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1001780155
Pump Set At:	24.38
Static Level:	3.27
Final Level After Pumping:	4.3
Recommended Pump Depth:	24.38
Pumping Rate:	91
Flowing Rate:	
Recommended Pump Rate:	91
Levels UOM:	m
Rate UOM:	GPM
Water State After Test Code:	0
Water State After Test:	
Pumping Test Method:	0
Pumping Duration HR:	1
Pumping Duration MIN:	
Flowing:	

Draw Down & Recovery

Pump Test Detail ID:	1001780180
Test Type:	Recovery
Test Duration:	20
Test Level:	3.27
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	1001780175
Test Type:	Draw Down
Test Duration:	10
Test Level:	4
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID: 1001780173
Test Type: Draw Down
Test Duration: 5
Test Level: 3.44
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780188
Test Type: Recovery
Test Duration: 50
Test Level: 3.27
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780169
Test Type: Draw Down
Test Duration: 3
Test Level: 3.43
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780167
Test Type: Draw Down
Test Duration: 2
Test Level: 3.4
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780190
Test Type: Recovery
Test Duration: 60
Test Level: 3.27
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780171
Test Type: Draw Down
Test Duration: 4
Test Level: 3.44
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780189
Test Type: Draw Down
Test Duration: 60
Test Level: 4.3
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780172
Test Type: Recovery
Test Duration: 4

Test Level: 3.27
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780184
Test Type: Recovery
Test Duration: 30
Test Level: 3.27
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780182
Test Type: Recovery
Test Duration: 25
Test Level: 3.27
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780168
Test Type: Recovery
Test Duration: 2
Test Level: 3.27
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780165
Test Type: Draw Down
Test Duration: 1
Test Level: 3.33
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780176
Test Type: Recovery
Test Duration: 10
Test Level: 3.27
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780178
Test Type: Recovery
Test Duration: 15
Test Level: 3.27
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780170
Test Type: Recovery
Test Duration: 3
Test Level: 3.27
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780177
Test Type: Draw Down
Test Duration: 15
Test Level: 4.2
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780185
Test Type: Draw Down
Test Duration: 40
Test Level: 4.3
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780187
Test Type: Draw Down
Test Duration: 50
Test Level: 4.3
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780183
Test Type: Draw Down
Test Duration: 30
Test Level: 4.3
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780186
Test Type: Recovery
Test Duration: 40
Test Level: 3.27
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780166
Test Type: Recovery
Test Duration: 1
Test Level: 3.4
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780179
Test Type: Draw Down
Test Duration: 20
Test Level: 4.2
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1001780174
Test Type: Recovery

Test Duration:	5
Test Level:	3.27
Test Level UOM:	m

Draw Down & Recovery

Pump Test Detail ID:	1001780181
Test Type:	Draw Down
Test Duration:	25
Test Level:	4.3
Test Level UOM:	m

Water Details

Water ID:	1001780161
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	29.87
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1001780158
Diameter:	15.23
Depth From:	0
Depth To:	33.53
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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7 **1 of 1** **WSW/151.7** **100.9 / -2.00** ***647 BALLYCASTLE CRESCENT lot 30 con 3 GLOUCESTER ON*** **WWIS**

Well ID:	7234834	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	1/6/2015
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	7
Audit No:	Z191300	**Owner:**	
Tag:	A167454	**Street Name:**	647 BALLYCASTLE CRESCENT
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	030
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	RF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/723\7234834.pdf

Bore Hole Information

Bore Hole ID:	1005269302	**Elevation:**	102.764404
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	453271

Code OB Desc:		***North83:***	5013208
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/29/2014	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005494423
Layer:	4
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	50
Formation End Depth:	89
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005494424
Layer:	5
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	89
Formation End Depth:	115
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005494422
Layer:	3
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	20
Formation End Depth:	50
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005494425
Layer:	6
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	115
Formation End Depth:	133
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005494426
Layer:	7
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	133
Formation End Depth:	140
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005494421
Layer:	2
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	8
Formation End Depth:	20
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005494420
Layer:	1
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	

Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 8
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005494463
Layer: 1
Plug From: 60
Plug To: 0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1005494462
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1005494418
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005494432
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -2
Depth To: 60
Casing Diameter: 6.25
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1005494433
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 60
Depth To: 140
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1005494434
Layer:
Slot:
Screen Top Depth:
Screen End Depth:

Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1005494419
Pump Set At: 130
Static Level: 16.75
Final Level After Pumping: 92
Recommended Pump Depth: 100
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 20
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 3
Water State After Test: OTHER
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 1005494449
Test Type: Draw Down
Test Duration: 20
Test Level: 74.417
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494448
Test Type: Recovery
Test Duration: 15
Test Level: 16.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494444
Test Type: Recovery
Test Duration: 5
Test Level: 34.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494452
Test Type: Recovery
Test Duration: 25
Test Level: 16.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494439
Test Type: Draw Down
Test Duration: 3

Test Level: 38
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494445
Test Type: Draw Down
Test Duration: 10
Test Level: 59.667
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494447
Test Type: Draw Down
Test Duration: 15
Test Level: 68.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494438
Test Type: Recovery
Test Duration: 2
Test Level: 54.667
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494441
Test Type: Draw Down
Test Duration: 4
Test Level: 42.333
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494437
Test Type: Draw Down
Test Duration: 2
Test Level: 32.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494454
Test Type: Recovery
Test Duration: 30
Test Level: 16.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494457
Test Type: Draw Down
Test Duration: 50
Test Level: 89
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494443
Test Type: Draw Down
Test Duration: 5
Test Level: 46.083
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494450
Test Type: Recovery
Test Duration: 20
Test Level: 16.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494453
Test Type: Draw Down
Test Duration: 30
Test Level: 81
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494455
Test Type: Draw Down
Test Duration: 40
Test Level: 85
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494458
Test Type: Recovery
Test Duration: 50
Test Level: 16.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494440
Test Type: Recovery
Test Duration: 3
Test Level: 47
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494436
Test Type: Recovery
Test Duration: 1
Test Level: 64.333
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494442
Test Type: Recovery

Test Duration: 4
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494451
Test Type: Draw Down
Test Duration: 25
Test Level: 77.667
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494456
Test Type: Recovery
Test Duration: 40
Test Level: 16.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494446
Test Type: Recovery
Test Duration: 10
Test Level: 21
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494459
Test Type: Draw Down
Test Duration: 60
Test Level: 92
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494435
Test Type: Draw Down
Test Duration: 1
Test Level: 26.417
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005494460
Test Type: Recovery
Test Duration: 60
Test Level: 16.75
Test Level UOM: ft

Water Details

Water ID: 1005494431
Layer: 3
Kind Code: 8
Kind: Untested
Water Found Depth: 133
Water Found Depth UOM: ft

Water Details

Water ID:	1005494429
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	89
Water Found Depth UOM:	ft

Water Details

Water ID:	1005494430
Layer:	2
Kind Code:	8
Kind:	Untested
Water Found Depth:	115
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1005494428
Diameter:	6
Depth From:	60
Depth To:	140
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1005494427
Diameter:	9.75
Depth From:	0
Depth To:	60
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

---

8 ***1 of 1*** ***W/158.9*** ***100.9 / -2.00*** ***639 BALLYCASTE CRESCENT lot 30 con 3 GLOUCESTER ON*** ***WWIS***

Well ID:	7329110	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Domestic	***Date Received:***	2/22/2019
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	7
Audit No:	Z302536	***Owner:***	
Tag:	A260988	***Street Name:***	639 BALLYCASTE CRESCENT
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	S/L 17
Depth to Bedrock:		***Lot:***	030
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	RF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map):

Bore Hole Information

Bore Hole ID:	1007389027	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	453258
Code OB Desc:		***North83:***	5013264
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	3
Date Completed:	1/15/2019	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	gis
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007774975
Layer:	4
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	113
Formation End Depth:	120
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007774974
Layer:	3
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	110
Formation End Depth:	113
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1007774973
Layer:	2
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE

Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 40
Formation End Depth: 110
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1007774972
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 05
Mat2 Desc: CLAY
Mat3: 13
Mat3 Desc: BOULDERS
Formation Top Depth: 0
Formation End Depth: 40
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007776244
Layer: 1
Plug From: 50
Plug To: 0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007777633
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1007773666
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007778169
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -2
Depth To: 50
Casing Diameter: 6.25
Casing Diameter UOM: Inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID:	1007778168
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	50
Depth To:	120
Casing Diameter:	5.875
Casing Diameter UOM:	Inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	1007779536
Pump Set At:	100
Static Level:	12.417
Final Level After Pumping:	14.25
Recommended Pump Depth:	100
Pumping Rate:	20
Flowing Rate:	
Recommended Pump Rate:	20
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	3
Water State After Test:	OTHER
Pumping Test Method:	0
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	1007782742
Test Type:	Recovery
Test Duration:	2
Test Level:	12.8
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1007782747
Test Type:	Recovery
Test Duration:	15
Test Level:	12.5
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1007782732
Test Type:	Draw Down
Test Duration:	5
Test Level:	13.8
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1007782746
Test Type:	Recovery
Test Duration:	10
Test Level:	12.5
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID: 1007782752
Test Type: Recovery
Test Duration: 50
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782753
Test Type: Recovery
Test Duration: 60
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782751
Test Type: Recovery
Test Duration: 40
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782740
Test Type: Draw Down
Test Duration: 60
Test Level: 14.3
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782735
Test Type: Draw Down
Test Duration: 20
Test Level: 14.1
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782744
Test Type: Recovery
Test Duration: 4
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782733
Test Type: Draw Down
Test Duration: 10
Test Level: 14
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782748
Test Type: Recovery
Test Duration: 20
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782745
Test Type: Recovery
Test Duration: 5
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782743
Test Type: Recovery
Test Duration: 3
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782728
Test Type: Draw Down
Test Duration: 1
Test Level: 13.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782739
Test Type: Draw Down
Test Duration: 50
Test Level: 14.2
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782729
Test Type: Draw Down
Test Duration: 2
Test Level: 13.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782734
Test Type: Draw Down
Test Duration: 15
Test Level: 14.1
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782731
Test Type: Draw Down
Test Duration: 4
Test Level: 13.8

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782738
Test Type: Draw Down
Test Duration: 40
Test Level: 14.2
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782736
Test Type: Draw Down
Test Duration: 25
Test Level: 14.1
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782741
Test Type: Recovery
Test Duration: 1
Test Level: 13.3
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782750
Test Type: Recovery
Test Duration: 30
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782737
Test Type: Draw Down
Test Duration: 30
Test Level: 14.2
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782749
Test Type: Recovery
Test Duration: 25
Test Level: 12.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1007782730
Test Type: Draw Down
Test Duration: 3
Test Level: 13.7
Test Level UOM: ft

Water Details

Water ID: 1007778819
Layer: 2
Kind Code: 8
Kind: Untested
Water Found Depth: 113
Water Found Depth UOM: ft

Water Details

Water ID: 1007778818
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 10
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1007776949
Diameter: 9.75
Depth From: 0
Depth To: 50
Hole Depth UOM: ft
Hole Diameter UOM: Inch

Hole Diameter

Hole ID: 1007776950
Diameter: 5.875
Depth From: 50
Depth To: 120
Hole Depth UOM: ft
Hole Diameter UOM: Inch

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	1 of 19	SW/161.8	101.9 / -0.97	MACEWEN PETROLEUM INC 5546 ALBION RD GLOUCESTER ON K1X 1A8	RST

Headcode: 01186800
Headcode Desc: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS
Phone:
List Name:
Description:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	2 of 19	SW/161.8	101.9 / -0.97	5546 Albion Road Ottawa ON K1X 1A8	CA

Certificate #: 7257-5AEK47
Application Year: 02
Issue Date: 6/18/02
Approval Type: Industrial sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: MacEwen Petroleum Inc.
Client Address: 5546 Albion Road
Client City: Ottawa
Client Postal Code: K1X 1A8
Project Description: Stormwater management facility including hydrocarbon separator to be constructed to service a new fuel sales facility
Contaminants:

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

Emission Control:

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9 | ***3 of 19*** | ***SW/161.8*** | ***101.9 / -0.97*** | ***MACEWEN PETROLEUM INC***
5546 ALBION RD
GLOUCESTER ON K1X 1A8 | ***FSTH***

License Issue Date:	4/13/2004
Tank Status:	Licensed
Tank Status As Of:	August 2007
Operation Type:	Retail Fuel Outlet
Facility Type:	Gasoline Station - Self Serve

--Details--

Status:	Active
Year of Installation:	1993
Corrosion Protection:	
Capacity:	45400
Tank Fuel Type:	Liquid Fuel Single Wall UST - Gasoline
Status:	Active
Year of Installation:	1993
Corrosion Protection:	
Capacity:	35000
Tank Fuel Type:	Liquid Fuel Single Wall UST - Gasoline
Status:	Active
Year of Installation:	1993
Corrosion Protection:	
Capacity:	25000
Tank Fuel Type:	Liquid Fuel Single Wall UST - Gasoline
Status:	Active
Year of Installation:	2003
Corrosion Protection:	
Capacity:	35000
Tank Fuel Type:	Liquid Fuel Double Wall UST - Gasoline
Status:	Active
Year of Installation:	2003
Corrosion Protection:	
Capacity:	25000
Tank Fuel Type:	Liquid Fuel Double Wall UST - Diesel

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9 | ***4 of 19*** | ***SW/161.8*** | ***101.9 / -0.97*** | ***McEwen's Petroleum Ltd.<UNOFFICIAL>***
5546 Albion Road
Ottawa ON | ***SPL***

Ref No:	2036-6Z5288	***Discharger Report:***	
Site No:		***Material Group:***	Oil
Incident Dt:		***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Other Discharges	***Sector Type:***	Service Station
Incident Event:		***Agency Involved:***	
Contaminant Code:	12	***Nearest Watercourse:***	
Contaminant Name:	GASOLINE	***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Ottawa
Nature of Impact:	Groundwater Pollution; Soil Contamination	***Site Lot:***	
Receiving Medium:	Land	***Site Conc:***	

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

Receiving Env:		**Northing:**	5013087
MOE Response:	Planned Field Response	**Easting:**	453419
Dt MOE Arvl on Scn:	3/9/2007	**Site Geo Ref Accu:**	
MOE Reported Dt:	3/8/2007	**Site Map Datum:**	
Dt Document Closed:	6/1/2007	**SAC Action Class:**	
Incident Reason:	Equipment Failure	**Source Type:**	

Site Name: 5546 Albion Road<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: McEwen's Petroleum - 300 L gas to prkg lot road and ditch
Contaminant Qty: 127 L

9	5 of 19	SW/161.8	101.9 / -0.97	**MACEWEN PETROLEUM INC** **5546 ALBION RD** **GLOUCESTER ON K1X 1A8**	FSTH

License Issue Date: 4/13/2004 10:38:00 AM
Tank Status: Pending Renewal
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 35000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 25000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

9	6 of 19	SW/161.8	101.9 / -0.97	**MACEWEN PETROLEUM INC*** **5546 ALBION RD** **GLOUCESTER ON**	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 10370374
Status: EXPIRED
Instance ID: 16475
Instance Type: FS Facility
Description: FS Gasoline Station - Card/Keylock
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:
Original Source: EXP
Record Date: Up to Mar 2012

9	7 of 19	SW/161.8	101.9 / -0.97	**MACEWEN PETROLEUM INC*** **5546 ALBION RD** **GLOUCESTER ON K1X 1A8**	DTNK

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

Delisted Expired Fuel Safety Facilities

Instance No:	9987680
Status:	EXPIRED
Instance ID:	
Instance Type:	FS Facility
Description:	
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	
Expired Date:	2/19/1993
Original Source:	EXP
Record Date:	Up to May 2013

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	8 of 19	SW/161.8	101.9 / -0.97	MACEWEN PETROLEUM INC 5546 ALBION RD GLOUCESTER ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	11131008
Status:	EXPIRED
Instance ID:	70731
Instance Type:	FS Piping
Description:	FS Piping
TSSA Program Area:	
Maximum Hazard Rank:	
Facility Type:	
Expired Date:	
Original Source:	EXP
Record Date:	Up to Mar 2012

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	9 of 19	SW/161.8	101.9 / -0.97	MACEWEN PETROLEUM INC 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON	FST

Instance No:	28546157	***Manufacturer:***	NULL
Status:	Active	***Serial No:***	NULL
Cont Name:		***Ulc Standard:***	NULL
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	1
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	EA
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Diesel
Tank Type:	Double Wall UST	***Fuel Type2:***	NULL
Install Date:	2/16/2004	***Fuel Type3:***	NULL
Install Year:	2003	***Piping Steel:***	
Years in Service:	7.1	***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	26000	***Num Underground:***	
Tank Material:	Jacketed Tank (Fibreglass & Steel)	***Panam Related:***	NULL
Corrosion Protect:	Fiberglass	***Panam Venue:***	NULL
Overfill Protect:			

Facility Type:	FS Liquid Fuel Tank
Parent Facility Type:	FS Gasoline Station - Self Serve
Facility Location:	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA
Device Installed Location:	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA

Fuel Storage Tank Details

Owner Account Name: MACEWEN PETROLEUM INC

Liquid Fuel Tank Details

Overfill Protection: NULL
Owner Account Name: MACEWEN PETROLEUM INC

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9 | ***10 of 19*** | ***SW/161.8*** | ***101.9 / -0.97*** | ***MACEWEN PETROLEUM INC***
5546 ALBION RD GLOUCESTER K1X 1A8 ON CA
5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON | ***FST***

Instance No:	28546156	***Manufacturer:***	NULL
Status:	Active	***Serial No:***	NULL
Cont Name:		***Ulc Standard:***	NULL
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	1
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	EA
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Double Wall UST	***Fuel Type2:***	NULL
Install Date:	2/16/2004	***Fuel Type3:***	NULL
Install Year:	2003	***Piping Steel:***	
Years in Service:	7.1	***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	35000	***Num Underground:***	
Tank Material:	Jacketed Tank (Fibreglass & Steel)	***Panam Related:***	NULL
Corrosion Protect:	Fiberglass	***Panam Venue:***	NULL
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: FS Gasoline Station - Self Serve
Facility Location: 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA
Device Installed Location: 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA

Fuel Storage Tank Details

Owner Account Name: MACEWEN PETROLEUM INC

Liquid Fuel Tank Details

Overfill Protection: NULL
Owner Account Name: MACEWEN PETROLEUM INC

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9 | ***11 of 19*** | ***SW/161.8*** | ***101.9 / -0.97*** | ***MACEWEN PETROLEUM INC***
5546 ALBION RD GLOUCESTER K1X 1A8 ON CA
5546 ALBION RD GLOUCESTER K1X 1A8 ON CA ON | ***FST***

Instance No:	11131068	***Manufacturer:***	NULL
Status:	Active	***Serial No:***	NULL
Cont Name:		***Ulc Standard:***	NULL
Instance Type:	FS Liquid Fuel Tank	***Quantity:***	1
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	EA
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Single Wall UST	***Fuel Type2:***	NULL
Install Date:	5/21/2009	***Fuel Type3:***	NULL
Install Year:	1993	***Piping Steel:***	
Years in Service:	1.9	***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	25000	***Num Underground:***	
Tank Material:	Jacketed Tank (Fibreglass & Steel)	***Panam Related:***	NULL

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

Corrosion Protect:	Fiberglass	**Panam Venue:**	NULL
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA		
Device Installed Location:	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA		

Fuel Storage Tank Details

Owner Account Name:	MACEWEN PETROLEUM INC

Liquid Fuel Tank Details

Overfill Protection:	NULL
Owner Account Name:	MACEWEN PETROLEUM INC

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9 **12 of 19** **SW/161.8** **101.9 / -0.97** **MACEWEN PETROLEUM INC** **FST**
5546 ALBION RD GLOUCESTER K1X 1A8 ON CA
5546 ALBION RD GLOUCESTER K1X 1A8 ON CA
ON

Instance No:	11131045	**Manufacturer:**	NULL
Status:	Active	**Serial No:**	NULL
Cont Name:		**Ulc Standard:**	NULL
Instance Type:	FS Liquid Fuel Tank	**Quantity:**	1
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	EA
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Single Wall UST	**Fuel Type2:**	NULL
Install Date:	5/21/2009	**Fuel Type3:**	NULL
Install Year:	1993	**Piping Steel:**	
Years in Service:	1.9	**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	35000	**Num Underground:**	
Tank Material:	Jacketed Tank (Fibreglass & Steel)	**Panam Related:**	NULL
Corrosion Protect:	Fiberglass	**Panam Venue:**	NULL
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:	FS Gasoline Station - Self Serve		
Facility Location:	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA		
Device Installed Location:	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA		

Fuel Storage Tank Details

Owner Account Name:	MACEWEN PETROLEUM INC

Liquid Fuel Tank Details

Overfill Protection:	NULL
Owner Account Name:	MACEWEN PETROLEUM INC

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9 **13 of 19** **SW/161.8** **101.9 / -0.97** **MACEWEN PETROLEUM INC** **FST**
5546 ALBION RD GLOUCESTER K1X 1A8 ON CA
5546 ALBION RD GLOUCESTER K1X 1A8 ON CA
ON

Instance No:	11131028	**Manufacturer:**	NULL
Status:	Active	**Serial No:**	NULL
Cont Name:		**Ulc Standard:**	NULL
Instance Type:	FS Liquid Fuel Tank	**Quantity:**	1
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	EA

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

Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Single Wall UST	**Fuel Type2:**	NULL
Install Date:	5/21/2009	**Fuel Type3:**	NULL
Install Year:	1993	**Piping Steel:**	
Years in Service:	1.9	**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	45400	**Num Underground:**	
Tank Material:	Jacketed Tank (Fibreglass & Steel)	**Panam Related:**	NULL
Corrosion Protect:	Fiberglass	**Panam Venue:**	NULL
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: FS Gasoline Station - Self Serve
Facility Location: 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA
Device Installed Location: 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA

Fuel Storage Tank Details

Owner Account Name: MACEWEN PETROLEUM INC

Liquid Fuel Tank Details

Overfill Protection: NULL
Owner Account Name: MACEWEN PETROLEUM INC

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	14 of 19	SW/161.8	101.9 / -0.97	MACEWEN PETROLEUM INC 5546 ALBION RD GLOUCESTER ON K1X1A8	RST

Headcode: 01186800
Headcode Desc: SERVICE STATIONS GASOLINE OIL & NATURAL GAS
Phone: 6138220256
List Name: INFO-DIRECT(TM) BUSINESS FILE
Description:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	15 of 19	SW/161.8	101.9 / -0.97	MacEwen Petroleum Inc. 5546 Albion Road Ottawa ON K1X 1A8	ECA

Approval No:	7257-5AEK47	**MOE District:**	Ottawa
Approval Date:	2002-06-18	**City:**	
Status:	Approved	**Longitude:**	-75.59446
Record Type:	ECA	**Latitude:**	45.269732999999995
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Rideau Valley	**Geometry Y:**	

Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Address: 5546 Albion Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5793-5A9HSB-14.pdf

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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	16 of 19	SW/161.8	101.9 / -0.97	5546 Albion Road South Ottawa ON	SPL

Ref No:	1266-AQQH7R	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	8/30/2017	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Leak/Break	**Agency Involved:**	

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

Contaminant Code:	42	**Nearest Watercourse:**	
Contaminant Name:	GASOLINE/WATER MIXTURE	**Site Address:**	5546 Albion Road South
Contaminant Limit 1:	0	**Site District Office:**	Ottawa
Contam Limit Freq 1:	none	**Site Postal Code:**	
Contaminant UN No 1:	n/a	**Site Region:**	Eastern
Environment Impact:		**Site Municipality:**	Ottawa
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	5013104.66
MOE Response:	No	**Easting:**	453352.16
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	8/30/2017	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Land Spills
Incident Reason:	Operator/Human Error	**Source Type:**	Container/Drum/Tote

Site Name: MacEwan Petroleum gas station<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: MacEwan Petrol ~ 25L gas & wtr to grnd; cntnd & clng
Contaminant Qty: 0 other - see incident description

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9 | **17 of 19** | **SW/161.8** | **101.9 / -0.97** | **MACEWEN PETROLEUM INC**
5546 ALBION RD,,GLOUCESTER,ON,K1X 1A8, CA
ON | **INC**

Incident No:	2146174	**Any Health Impact:**	
Incident ID:		**Any Enviro Impact:**	
Instance No:	28418610	**Service Interrupted:**	
Status Code:		**Was Prop Damaged:**	
Attribute Category:	FS-Incident	**Reside App. Type:**	
Context:	FS Facility	**Commer App. Type:**	
Date of Occurrence:	8/31/2017	**Indus App. Type:**	
Time of Occurrence:		**Institut App. Type:**	
Incident Created On:	8/31/2017	**Venting Type:**	
Instance Creation Dt:	2/10/2004 2:28:07 PM	**Vent Conn Mater:**	
Instance Install Dt:	2/10/2004 2:28:07 PM	**Vent Chimney Mater:**	
Occur Insp Start Date:		**Pipeline Type:**	
Approx Quant Rel:		**Pipeline Involved:**	
Tank Capacity:		**Pipe Material:**	
Fuels Occur Type:		**Depth Ground Cover:**	
Fuel Type Involved:		**Regulator Location:**	
Enforcement Policy:		**Regulator Type:**	
Prc Escalation Req:		**Operation Pressure:**	
Tank Material Type:		**Liquid Prop Make:**	
Tank Storage Type:		**Liquid Prop Model:**	
Tank Location Type:		**Liquid Prop Serial No:**	
Pump Flow Rate Cap:		**Liquid Prop Notes:**	
Task No:		**Equipment Type:**	
Notes:		**Equipment Model:**	
Drainage System:		**Serial No:**	
Sub Surface Contam.:		**Cylinder Capacity:**	
Aff Prop Use Water:		**Cylinder Cap Units:**	
Contam. Migrated:		**Cylinder Mat Type:**	
Contact Natural Env:		**Near Body of Water:**	

Incident Location: 5546 ALBION RD,,GLOUCESTER,ON,K1X 1A8,CA
Occurence Narrative:
Operation Type Involved:
Item: FS GASOLINE STATION - SELF SERVE
Item Description: FS Gasoline Station - Self Serve
Device Installed Location: 5546 ALBION RD GLOUCESTER K1X 1A8 ON CA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	18 of 19	SW/161.8	101.9 / -0.97	MACEWEN PETROLEUM INC 5546 ALBION RD,,GLOUCESTER,ON,K1X 1A8, CA ON	INC

Incident No:	2231898	**Any Health Impact:**	
Incident ID:		**Any Enviro Impact:**	
Instance No:	28418610	**Service Interrupted:**	
Status Code:		**Was Prop Damaged:**	
Attribute Category:	FS-Incident	**Reside App. Type:**	
Context:	FS Facility	**Commer App. Type:**	
Date of Occurrence:	1/29/2018	**Indus App. Type:**	
Time of Occurrence:		**Institut App. Type:**	
Incident Created On:	1/29/2018	**Venting Type:**	
Instance Creation Dt:	2/10/2004 2:28:07 PM	**Vent Conn Mater:**	
Instance Install Dt:	2/10/2004 2:28:07 PM	**Vent Chimney Mater:**	
Occur Insp Start Date:		**Pipeline Type:**	
Approx Quant Rel:		**Pipeline Involved:**	
Tank Capacity:		**Pipe Material:**	
Fuels Occur Type:		**Depth Ground Cover:**	
Fuel Type Involved:		**Regulator Location:**	
Enforcement Policy:		**Regulator Type:**	
Prc Escalation Req:		**Operation Pressure:**	
Tank Material Type:		**Liquid Prop Make:**	
Tank Storage Type:		**Liquid Prop Model:**	
Tank Location Type:		**Liquid Prop Serial No:**	
Pump Flow Rate Cap:		**Liquid Prop Notes:**	
Task No:		**Equipment Type:**	
Notes:		**Equipment Model:**	
Drainage System:		**Serial No:**	
Sub Surface Contam.:		**Cylinder Capacity:**	
Aff Prop Use Water:		**Cylinder Cap Units:**	
Contam. Migrated:		**Cylinder Mat Type:**	
Contact Natural Env:		**Near Body of Water:**	
Incident Location:	5546 ALBION RD,,GLOUCESTER,ON,K1X 1A8,CA		
Occurence Narrative:			
Operation Type Involved:			
Item:	FS GASOLINE STATION - SELF SERVE		
Item Description:	FS Gasoline Station - Self Serve		
Device Installed Location:	5546 ALBION RD GLOUCESTER K1X 1A8 ON CA		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	19 of 19	SW/161.8	101.9 / -0.97	5546 ALBION RD GLOUCESTER ON K1X 1A8	FST

Instance No:	28418610	**Manufacturer:**	
Status:	Active	**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS GASOLINE STATION - SELF SERVE	**Unit of Measure:**	
Item Description:		**Fuel Type:**	
Tank Type:		**Fuel Type2:**	
Install Date:		**Fuel Type3:**	
Install Year:		**Piping Steel:**	0
Years in Service:		**Piping Galvanized:**	0
Model:		**Tanks Single Wall St:**	0
Description:		**Piping Underground:**	5
Capacity:		**Num Underground:**	5
Tank Material:		**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:			
Parent Facility Type:			
Facility Location:			
Device Installed Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	1 of 1	NNW/169.2	101.9 / -1.00	lot 30 con 4 ON	WWIS

Well ID:	1515197	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	3/15/1976
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1558
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	030
Well Depth:		**Concession:**	04
Overburden/Bedrock:		**Concession Name:**	RF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1515197.pdf

Bore Hole Information

Bore Hole ID:	10037158	**Elevation:**	103.409935
DP2BR:	38	**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:	r	**East83:**	453347.8
Code OB Desc:	Bedrock	**North83:**	5013406
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	1/12/1976	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931028507
Layer:	5
Color:	8
General Color:	BLACK
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	51
Formation End Depth:	73
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931028504
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	77
Mat2 Desc:	LOOSE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	3
Formation End Depth:	35
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931028503
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	3
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931028506
Layer:	4
Color:	8
General Color:	BLACK
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	73
Mat2 Desc:	HARD
Mat3:	
Mat3 Desc:	
Formation Top Depth:	38
Formation End Depth:	51
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931028505
Layer:	3
Color:	8
General Color:	BLACK
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	

Mat3 Desc:
Formation Top Depth: 35
Formation End Depth: 38
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961515197
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10585728
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930065633
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 51
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930065634
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 73
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991515197
Pump Set At:
Static Level:
Final Level After Pumping: 1
Recommended Pump Depth: 30
Pumping Rate: 50
Flowing Rate: 0
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: Yes

Draw Down & Recovery

Pump Test Detail ID:	934375937
Test Type:	Draw Down
Test Duration:	30
Test Level:	1
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934894944
Test Type:	Draw Down
Test Duration:	60
Test Level:	1
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934100016
Test Type:	Draw Down
Test Duration:	15
Test Level:	1
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934646238
Test Type:	Draw Down
Test Duration:	45
Test Level:	1
Test Level UOM:	ft

Water Details

Water ID:	933471223
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	70
Water Found Depth UOM:	ft

11 ***1 of 1*** ***NW/177.5*** ***101.9 / -1.00*** ***ON*** ***BORE***

Borehole ID:	614549	***Inclin FLG:***	No
OGF ID:	215515501	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:		***Primary Name:***	
Completion Date:		***Municipality:***	
Static Water Level:	1.5	***Lot:***	
Primary Water Use:		***Township:***	
Sec. Water Use:		***Latitude DD:***	45.272657
Total Depth m:	-999	***Longitude DD:***	-75.594835
Depth Ref:	Ground Surface	***UTM Zone:***	18
Depth Elev:		***Easting:***	453341
Drill Method:		***Northing:***	5013412
Orig Ground Elev m:	100	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	103		

Concession:
Location D:
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID: 218398721
Top Depth: 1.8
Bottom Depth: 14
Material Color:
Material 1: Clay
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: CLAY. WATER STABLE AT 325.0 FEET.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218398720
Top Depth: 0
Bottom Depth: 1.8
Material Color:
Material 1: Sand
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SAND.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 218398722
Top Depth: 14
Bottom Depth:
Material Color:
Material 1: Gravel
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: GRAVEL. 00058TY = 16100. BEDROCK. SEISMIC VELOCITY = 17000. 000100140008501400 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: M
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA2.txt RecordID: 070570 NTS_Sheet: 31G05A
Confiden 1: Reliable information but incomplete.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

12	1 of 1	SSW/178.1	101.8 / -1.03		BORE

Borehole ID:	614537	**Inclin FLG:**	No
OGF ID:	215515489	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:		**Primary Name:**	
Completion Date:	SEP-1965	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	45.269689
Total Depth m:	41.5	**Longitude DD:**	-75.594549
Depth Ref:	Ground Surface	**UTM Zone:**	18
Depth Elev:		**Easting:**	453361
Drill Method:		**Northing:**	5013082
Orig Ground Elev m:	102	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	102		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218398688	**Mat Consistency:**	
Top Depth:	9.1	**Material Moisture:**	
Bottom Depth:	16.5	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Boulders	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	BOULDERS.		

Geology Stratum ID:	218398691	**Mat Consistency:**	
Top Depth:	36.3	**Material Moisture:**	
Bottom Depth:	41.5	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Granite	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRANITE. 00075 BEDROCK. SEISMIC VELOCITY = 17000. 000100140008501400105050002l0 **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	218398687	**Mat Consistency:**	
Top Depth:	3	**Material Moisture:**	
Bottom Depth:	9.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Gravel	**Geologic Formation:**	
Material 2:	Boulders	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	GRAVEL.		

Geology Stratum ID:	218398689	**Mat Consistency:**	
Top Depth:	16.5	**Material Moisture:**	
Bottom Depth:	27.4	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Limestone	**Geologic Formation:**	

Material 2: | **Geologic Group:**
Material 3: | **Geologic Period:**
Material 4: | **Depositional Gen:**
Gsc Material Description:
Stratum Description: LIMESTONE.

Geology Stratum ID: 218398690 | **Mat Consistency:**
Top Depth: 27.4 | **Material Moisture:**
Bottom Depth: 36.3 | **Material Texture:**
Material Color: | **Non Geo Mat Type:**
Material 1: Sandstone | **Geologic Formation:**
Material 2: | **Geologic Group:**
Material 3: | **Geologic Period:**
Material 4: | **Depositional Gen:**
Gsc Material Description:
Stratum Description: SANDSTONE.

Geology Stratum ID: 218398686 | **Mat Consistency:**
Top Depth: 0 | **Material Moisture:**
Bottom Depth: 3 | **Material Texture:**
Material Color: | **Non Geo Mat Type:**
Material 1: Sand | **Geologic Formation:**
Material 2: | **Geologic Group:**
Material 3: | **Geologic Period:**
Material 4: | **Depositional Gen:**
Gsc Material Description:
Stratum Description: SAND.

Source

Source Type: Data Survey | **Source Appl:** Spatial/Tabular
Source Orig: Geological Survey of Canada | **Source Iden:** 1
Source Date: 1956-1972 | **Scale or Res:** Varies
Confidence: | **Horizontal:** NAD27
Observatio: | **Verticalda:** Mean Average Sea Level
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: OTTAWA2.txt RecordID: 07045 NTS_Sheet:
Confiden 1:

Source List

Source Identifier: 1 | **Horizontal Datum:** NAD27
Source Type: Data Survey | **Vertical Datum:** Mean Average Sea Level
Source Date: 1956-1972 | **Projection Name:** Universal Transverse Mercator
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

13	1 of 1	SSW/178.2	101.8 / -1.03	lot 30 con 3 ON	WWIS

Well ID: 1501841 | **Data Entry Status:**
Construction Date: | **Data Src:** 1
Primary Water Use: Municipal | **Date Received:** 11/30/1965
Sec. Water Use: 0 | **Selected Flag:** Yes
Final Well Status: Water Supply | **Abandonment Rec:**
Water Type: | **Contractor:** 3504
Casing Material: | **Form Version:** 1
Audit No: | **Owner:**
Tag: | **Street Name:**
Construction Method: | **County:** OTTAWA
Elevation (m): | **Municipality:** GLOUCESTER TOWNSHIP
Elevation Reliability: | **Site Info:**

Depth to Bedrock:		***Lot:***	030
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	RF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1501841.pdf

Bore Hole Information

Bore Hole ID:	10023884	***Elevation:***	102.945343
DP2BR:	54	***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	r	***East83:***	453360.8
Code OB Desc:	Bedrock	***North83:***	5013082
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	9/3/1965	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930992949
Layer:	1
Color:	
General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	10
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930992953
Layer:	5
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	90
Formation End Depth:	119
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930992952
Layer:	4
Color:	
General Color:	
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	54
Formation End Depth:	90
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930992954
Layer:	6
Color:	
General Color:	
Mat1:	21
Most Common Material:	GRANITE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	119
Formation End Depth:	136
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930992950
Layer:	2
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	10
Formation End Depth:	30
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930992951
Layer:	3
Color:	
General Color:	
Mat1:	13
Most Common Material:	BOULDERS
Mat2:	05
Mat2 Desc:	CLAY

Mat3: 09
Mat3 Desc: MEDIUM SAND
Formation Top Depth: 30
Formation End Depth: 54
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961501841
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10572454
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930040585
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 64
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930040586
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 136
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991501841
Pump Set At:
Static Level: 18
Final Level After Pumping: 76
Recommended Pump Depth: 120
Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 30
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 24
Pumping Duration MIN: 0

Flowing: No

Water Details

Water ID: 933454568
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 75
Water Found Depth UOM: ft

---

14 ***1 of 4*** ***S/178.4*** ***102.9 / -0.01*** ***SPL***

PRIVATE OWNER
ALBION RD. JUST NORTH OF REG. RD. 8
MOTOR VEHICLE (OPERATING FLUID)
GLOUCESTER CITY ON

Ref No: 94699
Site No:
Incident Dt: 12/21/1993
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: CONFIRMED
Nature of Impact: Water course or lake
Receiving Medium: WATER
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 12/21/1993
Dt Document Closed:
Incident Reason: ERROR
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: 45 L OF GASOLINE TO DITCH FROM AUTOMOBILE IN ACCIDENT.
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20105
Site Lot:
Site Conc:
Northing:
Easting: FIRE, REGION
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

---

14 ***2 of 4*** ***S/178.4*** ***102.9 / -0.01*** ***GEN***

VANSON CONSTRUCTION LTD.
CORNER OF ALBION ROAD COUNTY ROAD 8
GLOUCESTER ON K0A 1Z0

Generator No: ON1282900
Status:
Approval Years: 92,93,97,98,99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 4122
SIC Description: WATERWORKS & SEWAGE

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

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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14 ***3 of 4*** ***S/178.4*** ***102.9 / -0.01*** ***GEN***

VANSON CONSTRUCTION LTD. 40-253
ALBION RD/COUNTY RD. #8, GLOUCESTER C/O

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				RR#2 GREELY ON K0A 1Z0	

Generator No: ON1282900
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 4122
SIC Description: WATERWORKS & SEWAGE

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

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

14	4 of 4	S/178.4	102.9 / -0.01	CORNER OF ALBION ROAD & MITCH OWENS ROAD OTTAWA ON	HINC

External File Num: FS INC 0703-01106
Fuel Occurrence Type: Liquid Petroleum Spill
Date of Occurrence: 3/8/2007
Fuel Type Involved: Gasoline
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved: Retail Fuel Station (FS, SS, Multifunctional)
Service Interruptions: Yes
Property Damage: No
Fuel Life Cycle Stage: Storage and Dispensing
Root Cause: Root Cause: Equipment/Material/Component:Yes Procedures:No Maintenance:No Design:No Training:No Management:No Human Factors:No
Reported Details:
Fuel Category: Liquid Fuel
Occurrence Type: Incident
Affiliation: Emergency Services (Fire, Police,etc)
County Name: Ottawa
Approx. Quant. Rel: 700
Nearby body of water: No
Enter Drainage Syst.: No
Approx. Quant. Unit: Liters
Environmental Impact:

15	1 of 1	WNW/180.2	102.0 / -0.91	lot 30 con 3 ON	WWIS

Well ID: 1512040
Construction Date:
Primary Water Use: Commerical
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:

Data Entry Status:
Data Src: 1
Date Received: 10/4/1972
Selected Flag: Yes
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: GLOUCESTER TOWNSHIP
Site Info:
Lot: 030
Concession: 03
Concession Name: RF
Easting NAD83:
Northing NAD83:

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

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1512040.pdf

Bore Hole Information

Bore Hole ID:	10034034	***Elevation:***	103.382209
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:	o	***East83:***	453261.8
Code OB Desc:	Overburden	***North83:***	5013344
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4
Date Completed:	8/24/1972	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931019456
Layer:	3
Color:	2
General Color:	GREY
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	35
Formation End Depth:	46
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931019454
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	4
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 931019455

Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	4
Formation End Depth:	35
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	961512040
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10582604
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930060408
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	46
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	991512040
Pump Set At:	
Static Level:	0
Final Level After Pumping:	30
Recommended Pump Depth:	30
Pumping Rate:	20
Flowing Rate:	6
Recommended Pump Rate:	5
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	Yes

Draw Down & Recovery

Pump Test Detail ID:	934894760

Test Type:	Draw Down
Test Duration:	60
Test Level:	30
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934098676
Test Type:	Draw Down
Test Duration:	15
Test Level:	30
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934384612
Test Type:	Draw Down
Test Duration:	30
Test Level:	30
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934646185
Test Type:	Draw Down
Test Duration:	45
Test Level:	30
Test Level UOM:	ft

Water Details

Water ID:	933467359
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	46
Water Found Depth UOM:	ft

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16 | ***1 of 1*** | ***SSE/189.0*** | ***103.9 / 1.00*** | ***6690 Mitch Owens Rd Ottawa ON K4P1M6*** | ***EHS***

Order No:	20160923034	**Nearest Intersection:**	
Status:	C	**Municipality:**	Ottawa (Former Twp of Osgoode)
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	29-SEP-16	**Search Radius (km):**	.25
Date Received:	23-SEP-16	**X:**	-75.592917
Previous Site Name:		**Y:**	45.269649
Lot/Building Size:	17.6 acres		

Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory

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17 | ***1 of 1*** | ***WNW/201.5*** | ***101.9 / -0.97*** | ***635 BILLYCASTLE CRES lot 29 con 3 GLOUCESTER ON*** | ***WWIS***

Well ID:	7285357	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	4/18/2017
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	1119
Casing Material:		**Form Version:**	7

Audit No:	Z237317	**Owner:**	
Tag:	A207657	**Street Name:**	635 BILLYCASTLE CRES
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	029
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	RF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map):

Bore Hole Information

Bore Hole ID:	1006382488	**Elevation:**	103.306869
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	453235
Code OB Desc:		**North83:**	5013339
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	3/16/2017	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006670622
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	28
Mat2 Desc:	SAND
Mat3:	12
Mat3 Desc:	STONES
Formation Top Depth:	40
Formation End Depth:	114
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006670621
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	28

Mat3 Desc:	SAND
Formation Top Depth:	0
Formation End Depth:	40
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1006670623
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	28
Mat2 Desc:	SAND
Mat3:	12
Mat3 Desc:	STONES
Formation Top Depth:	114
Formation End Depth:	120
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006670659
Layer:	1
Plug From:	50
Plug To:	0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006670658
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1006670619
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006670628
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	50
Depth To:	120
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	1006670627

Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	-2
Depth To:	50
Casing Diameter:	6.25
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006670629
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1006670620
Pump Set At:	110
Static Level:	9.583
Final Level After Pumping:	40.583
Recommended Pump Depth:	100
Pumping Rate:	20
Flowing Rate:	
Recommended Pump Rate:	20
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	3
Water State After Test:	OTHER
Pumping Test Method:	0
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	

Draw Down & Recovery

Pump Test Detail ID:	1006670639
Test Type:	Draw Down
Test Duration:	5
Test Level:	29.4
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006670654
Test Type:	Recovery
Test Duration:	50
Test Level:	9.7
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006670634
Test Type:	Recovery
Test Duration:	2
Test Level:	12

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670637
Test Type: Draw Down
Test Duration: 4
Test Level: 25.9
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670641
Test Type: Draw Down
Test Duration: 10
Test Level: 32.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670652
Test Type: Recovery
Test Duration: 40
Test Level: 9.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670655
Test Type: Draw Down
Test Duration: 60
Test Level: 40.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670630
Test Type: Recovery
Test Duration: 0
Test Level: 40.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670638
Test Type: Recovery
Test Duration: 4
Test Level: 9.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670646
Test Type: Recovery
Test Duration: 20
Test Level: 9.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670640
Test Type: Recovery
Test Duration: 5
Test Level: 9.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670633
Test Type: Draw Down
Test Duration: 2
Test Level: 18.1
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670643
Test Type: Draw Down
Test Duration: 15
Test Level: 33.9
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670635
Test Type: Draw Down
Test Duration: 3
Test Level: 22.1
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670650
Test Type: Recovery
Test Duration: 30
Test Level: 9.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670653
Test Type: Draw Down
Test Duration: 50
Test Level: 39.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670648
Test Type: Recovery
Test Duration: 25
Test Level: 9.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670656
Test Type: Recovery
Test Duration: 60

Test Level: 9.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670651
Test Type: Draw Down
Test Duration: 40
Test Level: 38.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670647
Test Type: Draw Down
Test Duration: 25
Test Level: 36.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670649
Test Type: Draw Down
Test Duration: 30
Test Level: 37.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670632
Test Type: Recovery
Test Duration: 1
Test Level: 26
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670644
Test Type: Recovery
Test Duration: 15
Test Level: 9.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670642
Test Type: Recovery
Test Duration: 10
Test Level: 9.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006670636
Test Type: Recovery
Test Duration: 3
Test Level: 9.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	1006670631
Test Type:	Draw Down
Test Duration:	1
Test Level:	14
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1006670645
Test Type:	Draw Down
Test Duration:	20
Test Level:	35.3
Test Level UOM:	ft

Water Details

Water ID:	1006670626
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	114
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006670624
Diameter:	9.75
Depth From:	0
Depth To:	50
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1006670625
Diameter:	6
Depth From:	50
Depth To:	120
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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18 ***1 of 2*** ***NNW/206.2*** ***102.2 / -0.69*** ***NOLA TRANS CORP.***
5457 ALBION ROAD
GLOUCESTER ON K1X 1A2 ***GEN***

Generator No:	ON2622000	***PO Box No:***	
Status:		***Country:***	
Approval Years:	01	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:	6351		
SIC Description:	GARAGES(GEN. REPAIR)		

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	213

Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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18 | **2 of 2** | **NNW/206.2** | **102.2 / -0.69** | **5457 Albion Rd Gloucester ON K1X 1A2** | **EHS**

Order No: 20040402005w
Status: C
Report Type: Online Mapless
Report Date: 4/2/04
Date Received: 4/2/04
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: 0
Y: 0

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19 | **1 of 1** | **SSE/216.7** | **103.9 / 1.00** | **6690 MITCH OWENS ROAD lot 1 con 4 GREELY ON** | **WWIS**

Well ID: 7275892
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: Z237048
Tag: A207695
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: 11/28/2016
Selected Flag: Yes
Abandonment Rec:
Contractor: 1119
Form Version: 7
Owner:
Street Name: 6690 MITCH OWENS ROAD
County: OTTAWA
Municipality: OSGOODE TOWNSHIP
Site Info:
Lot: 001
Concession: 04
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/727\7275892.pdf

Bore Hole Information

Bore Hole ID: 1006297470
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/6/2016
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:

Elevation: 102.881843
Elevrc:
Zone: 18
East83: 453476
North83: 5013043
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1006455446
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 40
Formation End Depth: 125
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006455447
Layer: 3
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 125
Formation End Depth: 128
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006455449
Layer: 5
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 165
Formation End Depth: 174
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006455448
Layer: 4
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE

Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 128
Formation End Depth: 165
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006455450
Layer: 6
Color: 2
General Color: GREY
Mat1: 18
Most Common Material: SANDSTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 174
Formation End Depth: 180
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006455445
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 40
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006455489
Layer: 2
Plug From: 36
Plug To: 0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006455488
Layer: 1
Plug From: 46
Plug To: 36
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1006455487
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1006455443
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006455457
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 46
Depth To: 180
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1006455456
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -2
Depth To: 46
Casing Diameter: 6.25
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1006455458
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1006455444
Pump Set At: 170
Static Level: 10.333
Final Level After Pumping: 36.167
Recommended Pump Depth: 100
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 20
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 3

Water State After Test: OTHER
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1006455484
Test Type: Draw Down
Test Duration: 60
Test Level: 36.167
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455459
Test Type: Recovery
Test Duration: 0
Test Level: 36.167
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455475
Test Type: Recovery
Test Duration: 20
Test Level: 10.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455479
Test Type: Recovery
Test Duration: 30
Test Level: 10.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455480
Test Type: Draw Down
Test Duration: 40
Test Level: 36
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455473
Test Type: Recovery
Test Duration: 15
Test Level: 10.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455482
Test Type: Draw Down
Test Duration: 50
Test Level: 36.1

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455463
Test Type: Recovery
Test Duration: 2
Test Level: 15.6
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455474
Test Type: Draw Down
Test Duration: 20
Test Level: 35.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455461
Test Type: Recovery
Test Duration: 1
Test Level: 22.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455464
Test Type: Draw Down
Test Duration: 3
Test Level: 28
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455469
Test Type: Recovery
Test Duration: 5
Test Level: 10.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455465
Test Type: Recovery
Test Duration: 3
Test Level: 11.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455483
Test Type: Recovery
Test Duration: 50
Test Level: 10.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455470
Test Type: Draw Down
Test Duration: 10
Test Level: 34.2
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455477
Test Type: Recovery
Test Duration: 25
Test Level: 10.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455478
Test Type: Draw Down
Test Duration: 30
Test Level: 35.9
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455471
Test Type: Recovery
Test Duration: 10
Test Level: 10.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455467
Test Type: Recovery
Test Duration: 4
Test Level: 10.6
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455468
Test Type: Draw Down
Test Duration: 5
Test Level: 31.2
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455462
Test Type: Draw Down
Test Duration: 2
Test Level: 25.6
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455472
Test Type: Draw Down
Test Duration: 15

Test Level: 34.9
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455476
Test Type: Draw Down
Test Duration: 25
Test Level: 35.8
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455481
Test Type: Recovery
Test Duration: 40
Test Level: 10.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455485
Test Type: Recovery
Test Duration: 60
Test Level: 10.333
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455466
Test Type: Draw Down
Test Duration: 4
Test Level: 29.8
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1006455460
Test Type: Draw Down
Test Duration: 1
Test Level: 21.3
Test Level UOM: ft

Water Details

Water ID: 1006455453
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 128
Water Found Depth UOM: ft

Water Details

Water ID: 1006455455
Layer: 3
Kind Code: 8
Kind: Untested
Water Found Depth: 174
Water Found Depth UOM: ft

Water Details

Water ID:	1006455454
Layer:	2
Kind Code:	8
Kind:	Untested
Water Found Depth:	165
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006455452
Diameter:	6
Depth From:	46
Depth To:	180
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Hole ID:	1006455451
Diameter:	9.75
Depth From:	0
Depth To:	46
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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20 ***1 of 1*** ***NNW/224.1*** ***102.9 / 0.03*** ***5457 Albion Road Ottawa ON*** ***EHS***

Order No:	20100618021	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Custom Report	***Client Prov/State:***	ON
Report Date:	6/25/2010	***Search Radius (km):***	0.25
Date Received:	6/18/2010	***X:***	-75.594923
Previous Site Name:		***Y:***	45.273087
Lot/Building Size:			
Additional Info Ordered:			

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21 ***1 of 1*** ***WNW/240.6*** ***101.9 / -1.00*** ***627 BALLYCASTLE lot 29 con 3 GLOUCESTER ON*** ***WWIS***

Well ID:	7126658	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Domestic	***Date Received:***	8/3/2009
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	7
Audit No:	Z94643	***Owner:***	
Tag:	A082413	***Street Name:***	627 BALLYCASTLE
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	S/L 33
Depth to Bedrock:		***Lot:***	029
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	RF
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	

Flow Rate: **UTM Reliability:**
Clear/Cloudy:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/712\7126658.pdf

Bore Hole Information

Bore Hole ID:	1002583714	**Elevation:**	103.175407
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	18
Code OB:		**East83:**	453210
Code OB Desc:		**North83:**	5013375
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	5/13/2009	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1002654603
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	05
Mat2 Desc:	CLAY
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	8
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1002654605
Layer:	3
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	30
Formation End Depth:	38
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1002654604
Layer:	2

Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 8
Formation End Depth: 30
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1002654606
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 38
Formation End Depth: 103
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1002654608
Layer: 1
Plug From: 0
Plug To: 48
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1002654640
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1002654601
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002654611
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 48
Depth To: 103
Casing Diameter: 6

Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1002654610
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -2
Depth To: 48
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1002654612
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1002654602
Pump Set At: 90
Static Level: 13.583
Final Level After Pumping: 85.167
Recommended Pump Depth: 90
Pumping Rate: 15
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1002654622
Test Type: Recovery
Test Duration: 5
Test Level: 42
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654624
Test Type: Recovery
Test Duration: 10
Test Level: 23
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654636
Test Type: Recovery
Test Duration: 50
Test Level: 13.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654628
Test Type: Recovery
Test Duration: 20
Test Level: 13.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654618
Test Type: Recovery
Test Duration: 3
Test Level: 58
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654613
Test Type: Draw Down
Test Duration: 1
Test Level: 22.25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654616
Test Type: Recovery
Test Duration: 2
Test Level: 72
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654614
Test Type: Recovery
Test Duration: 1
Test Level: 76.333
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654623
Test Type: Draw Down
Test Duration: 10
Test Level: 54
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654637

Test Type: Draw Down
Test Duration: 60
Test Level: 85.167
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654634
Test Type: Recovery
Test Duration: 40
Test Level: 13.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654615
Test Type: Draw Down
Test Duration: 2
Test Level: 27.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654630
Test Type: Recovery
Test Duration: 25
Test Level: 13.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654625
Test Type: Draw Down
Test Duration: 15
Test Level: 59.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654626
Test Type: Recovery
Test Duration: 15
Test Level: 13.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654632
Test Type: Recovery
Test Duration: 30
Test Level: 13.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654638
Test Type: Recovery
Test Duration: 60
Test Level: 13.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654619
Test Type: Draw Down
Test Duration: 4
Test Level: 37
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654620
Test Type: Recovery
Test Duration: 4
Test Level: 49
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654617
Test Type: Draw Down
Test Duration: 3
Test Level: 32.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654627
Test Type: Draw Down
Test Duration: 20
Test Level: 63
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654621
Test Type: Draw Down
Test Duration: 5
Test Level: 40.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654633
Test Type: Draw Down
Test Duration: 40
Test Level: 74.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002654629
Test Type: Draw Down
Test Duration: 25
Test Level: 66.167
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	1002654635
Test Type:	Draw Down
Test Duration:	50
Test Level:	79.667
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1002654631
Test Type:	Draw Down
Test Duration:	30
Test Level:	69.667
Test Level UOM:	ft

Water Details

Water ID:	1002654609
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	94
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1002654607
Diameter:	6
Depth From:	0
Depth To:	103
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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22 | ***1 of 1*** | ***WSW/243.9*** | ***99.9 / -3.00*** | ***651 BALLY CASTL;E CRES lot 30 con 3 GLOUCESTER ON*** | ***WWIS***

Well ID:	7234935	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Domestic	**Date Received:**	1/7/2015
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	4006
Casing Material:		**Form Version:**	7
Audit No:	Z177414	**Owner:**	
Tag:	A153560	**Street Name:**	651 BALLY CASTL;E CRES
Construction Method:		**County:**	OTTAWA
Elevation (m):		**Municipality:**	GLOUCESTER TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	030
Well Depth:		**Concession:**	03
Overburden/Bedrock:		**Concession Name:**	RF
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/723\7234935.pdf

Bore Hole Information

Bore Hole ID:	1005270755	**Elevation:**	102.398933
DP2BR:		**Elevrc:**	

Spatial Status:		***Zone:***	18
Code OB:		***East83:***	453195
Code OB Desc:		***North83:***	5013149
Open Hole:		***Org CS:***	dms83
Cluster Kind:		***UTMRC:***	4
Date Completed:	12/3/2014	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005504465
Layer:	2
Color:	2
General Color:	GREY
Mat1:	26
Most Common Material:	ROCK
Mat2:	
Mat2 Desc:	
Mat3:	71
Mat3 Desc:	FRACTURED
Formation Top Depth:	38
Formation End Depth:	45
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005504466
Layer:	3
Color:	2
General Color:	GREY
Mat1:	26
Most Common Material:	ROCK
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	45
Formation End Depth:	85
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005504464
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Mat2 Desc:	STONES
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	38

Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005504488
Layer: 1
Plug From: 45
Plug To: 0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1005504489
Layer: 2
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1005504487
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1005504462
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005504469
Layer: 1
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 0
Depth To: 45
Casing Diameter: 10
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1005504470
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: -3
Depth To: 45
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1005504471
Layer: 3
Material: 4
Open Hole or Material: OPEN HOLE
Depth From: 45
Depth To: 80
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1005504472
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1005504463
Pump Set At: 50
Static Level: 12.1
Final Level After Pumping: 15.3
Recommended Pump Depth: 60
Pumping Rate: 10
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 1005504479
Test Type: Draw Down
Test Duration: 15
Test Level: 14.8
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005504478
Test Type: Draw Down
Test Duration: 10
Test Level: 14.7
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005504476
Test Type: Draw Down

Test Duration: 4
Test Level: 13.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005504483
Test Type: Draw Down
Test Duration: 40
Test Level: 15.3
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005504473
Test Type: Draw Down
Test Duration: 1
Test Level: 12.4
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005504477
Test Type: Draw Down
Test Duration: 5
Test Level: 13.9
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005504482
Test Type: Draw Down
Test Duration: 30
Test Level: 15
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005504480
Test Type: Draw Down
Test Duration: 20
Test Level: 14.9
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005504475
Test Type: Draw Down
Test Duration: 3
Test Level: 13
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1005504481
Test Type: Draw Down
Test Duration: 25
Test Level: 14.1
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	1005504474
Test Type:	Draw Down
Test Duration:	2
Test Level:	12.7
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1005504485
Test Type:	Draw Down
Test Duration:	60
Test Level:	15.3
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1005504484
Test Type:	Draw Down
Test Duration:	50
Test Level:	15.3
Test Level UOM:	ft

Water Details

Water ID:	1005504468
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	67
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1005504467
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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23 ***1 of 1*** ***WNW/249.0*** ***101.9 / -1.00*** ***623 BALLYCASTLE CRES. lot 29 con 3 GLOUCESTER ON*** ***WWIS***

Well ID:	7126559	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Domestic	***Date Received:***	7/30/2009
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	1119
Casing Material:		***Form Version:***	7
Audit No:	Z94718	***Owner:***	
Tag:	A082456	***Street Name:***	623 BALLYCASTLE CRES.
Construction Method:		***County:***	OTTAWA
Elevation (m):		***Municipality:***	GLOUCESTER TOWNSHIP
Elevation Reliability:		***Site Info:***	S/L 34
Depth to Bedrock:		***Lot:***	029
Well Depth:		***Concession:***	03
Overburden/Bedrock:		***Concession Name:***	RF
Pump Rate:		***Easting NAD83:***	

Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/712\7126559.pdf

Bore Hole Information

Bore Hole ID:	1002581311	***Elevation:***	103.127326
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	18
Code OB:		***East83:***	453211
Code OB Desc:		***North83:***	5013392
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	3
Date Completed:	6/30/2009	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1002650576
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	26
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1002650577
Layer:	2
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	13
Mat3 Desc:	BOULDERS
Formation Top Depth:	26
Formation End Depth:	38
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1002650579
Layer:	4
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	15
Mat2 Desc:	LIMESTONE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	95
Formation End Depth:	140
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1002650578
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	38
Formation End Depth:	95
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1002650581
Layer:	1
Plug From:	0
Plug To:	48
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1002650614
Method Construction Code:	5
Method Construction:	Air Percussion
Other Method Construction:	

Pipe Information

Pipe ID:	1002650574
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002650585
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	48

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

Construction Record - Casing

Casing ID: 1002650584
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: -2
Depth To: 48
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1002650586
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1002650575
Pump Set At: 120
Static Level: 13.333
Final Level After Pumping: 87.083
Recommended Pump Depth: 120
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 20
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 0
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1002650592
Test Type: Recovery
Test Duration: 3
Test Level: 45.417
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650606
Test Type: Recovery
Test Duration: 30
Test Level: 13.333

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650595
Test Type: Draw Down
Test Duration: 5
Test Level: 39.083
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650612
Test Type: Recovery
Test Duration: 60
Test Level: 13.333
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650600
Test Type: Recovery
Test Duration: 15
Test Level: 20.5
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650611
Test Type: Draw Down
Test Duration: 60
Test Level: 87.083
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650598
Test Type: Recovery
Test Duration: 10
Test Level: 29.083
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650607
Test Type: Draw Down
Test Duration: 40
Test Level: 76
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650610
Test Type: Recovery
Test Duration: 50
Test Level: 13.333
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650589
Test Type: Draw Down
Test Duration: 2
Test Level: 27.417
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650609
Test Type: Draw Down
Test Duration: 50
Test Level: 81.417
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650594
Test Type: Recovery
Test Duration: 4
Test Level: 41.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650591
Test Type: Draw Down
Test Duration: 3
Test Level: 32
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650596
Test Type: Recovery
Test Duration: 5
Test Level: 38.417
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650588
Test Type: Recovery
Test Duration: 1
Test Level: 58.167
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650590
Test Type: Recovery
Test Duration: 2
Test Level: 50.667
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650605
Test Type: Draw Down
Test Duration: 30

Test Level: 70.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650593
Test Type: Draw Down
Test Duration: 4
Test Level: 35.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650597
Test Type: Draw Down
Test Duration: 10
Test Level: 50.583
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650603
Test Type: Draw Down
Test Duration: 25
Test Level: 66.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650599
Test Type: Draw Down
Test Duration: 15
Test Level: 56.75
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650604
Test Type: Recovery
Test Duration: 25
Test Level: 13.333
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650587
Test Type: Draw Down
Test Duration: 1
Test Level: 21
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 1002650608
Test Type: Recovery
Test Duration: 40
Test Level: 13.333
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	1002650602
Test Type:	Recovery
Test Duration:	20
Test Level:	13.333
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	1002650601
Test Type:	Draw Down
Test Duration:	20
Test Level:	63.25
Test Level UOM:	ft

Water Details

Water ID:	1002650583
Layer:	2
Kind Code:	8
Kind:	Untested
Water Found Depth:	132
Water Found Depth UOM:	ft

Water Details

Water ID:	1002650582
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	98
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1002650580
Diameter:	6
Depth From:	0
Depth To:	140
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Unplottable Summary

Total: 14 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AGR	Newcastle Developments Inc.	Lot 29 & 30, Con IV RF	GLOUCESTER ON	
CA	Clark Quarry	Lots 1 & 2, Concession 4	Ottawa ON	
CA	ROB OAK HOLDINGS INC. SOUTHGATE COURT	ALBION ROAD	OTTAWA CITY ON	
CA	LANDAWAN SHOPPING CENTRE LTD. PRIVATE	ALBION ROAD	OTTAWA CITY ON	
CA	CITY	ALBION RD.	OTTAWA ON	
CA	LANDAWN SHOPPING CENTRE LIMITED-PRIVATE	ALBION ROAD	OTTAWA CITY ON	
CA	OTTAWA CITY ALBION RD.	ALBION RD.	OTTAWA CITY ON	
CA	ROB OAK HOLDINGS INC. SOUTHGATE COURT	ALBION ROAD	OTTAWA CITY ON	
EBR	Karson Kartage & Konstruction (1994) Limited	Lots 1 & 2, Concession 4 Ottawa Ontario Ottawa	ON	
PRT	NCG PETROLEUM LTD NORMA BUCKLEY	PRT 1 LOT 30 CON 3	GLOUCESTER ON	
PTTW	Albion Sun Vista Development Corporation	Lot 1, Concession 4, City of Ottawa (formerly Osgoode Township) Osgoode	ON	
PTTW	Albion Sun Vista Park (Robert H. Smith)	Lot 1, Concession 4, Albion Sun Vista Park Osgoode	ON	
SPL	MacEwen Petroleum Inc.		Ottawa ON	
SPL		SUNSET LAKES SITE, OFF REG. RD #8 \	OSGOODE TOWNSHIP ON	

Unplottable Report

Site: ***Newcastle Developments Inc.***
Lot 29 & 30, Con IV RF GLOUCESTER ON

Database: ***AGR***

ID:	4072	***Water Status:***	Information Not Available
OGF ID:	67241049	***Licenced Area (ha):***	101.4
Current Status:	ACTIVE	***Extraction Area:***	
Status Date:		***Location Name:***	
Effective Date:		***Location Accuracy:***	Within 10 metres
Auth Type Desc:	CLASS A LICENCE > 20000 TONNES	***Lower Tier Munici:***	OTTAWA
Authority Type:		***Upper Tier Munici:***	OTTAWA-CARLETON R
Operation Type:	Pit	***District:***	
Max Annual Tonnage:		***District Name:***	Kemptville
Max Tonnage:		***Section:***	
Unlimited Tonnage:	Yes	***Shape Area:***	0
Source Detail:	Material Reference	***Shape Len:***	0
Effective Datetime:	2006-04-17T12:54:19.0000000-04:00		
System Datetime:	2006-04-25T11:50:45.0000000-04:00		
Refreshed Datetime:	2019-10-02T23:55:06.0000000-04:00		
Geometry Update Datetime:			

Site: ***Clark Quarry***
Lots 1 & 2, Concession 4 Ottawa ON

Database: ***CA***

Certificate #:	1962-572R6D
Application Year:	02
Issue Date:	5/8/02
Approval Type:	Industrial sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Karson Kartage & Konstruction (1994) Limited
Client Address:	P.O. Box 264, 3725 Carp Road
Client City:	Carp
Client Postal Code:	K0A 1L0
Project Description:	The company operates a limestone quarry and supplies aggregate for heavy construction projects throughout Eastern Ontario. The quarry is dewatered. Surface water runoff and groundwater is pumped from the quarry sump to on-site retention/settling pond. Effluent from the pond discharges to on-site ditch that subsequently discharges off-site. The receiving water body is Feedmill Creek which discharges to the Carp River. The Carp River eventually discharges to the Ottawa River at Fitzroy Harbour, approximately 37 km downstream.
Contaminants:	
Emission Control:	

Site: ***ROB OAK HOLDINGS INC. SOUTHGATE COURT***
ALBION ROAD OTTAWA CITY ON

Database: ***CA***

Certificate #:	7-0654-88-
Application Year:	88
Issue Date:	5/20/1988
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***LANDAWAN SHOPPING CENTRE LTD. PRIVATE***
ALBION ROAD OTTAWA CITY ON

Database: ***CA***

Certificate #: 3-1272-87-
Application Year: 87
Issue Date: 8/4/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***CITY***
ALBION RD. OTTAWA ON

Database: ***CA***

Certificate #: 3-0372-85-006
Application Year: 85
Issue Date: 5/8/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***LANDAWN SHOPPING CENTRE LIMITED-PRIVATE***
ALBION ROAD OTTAWA CITY ON

Database: ***CA***

Certificate #: 7-1047-87-
Application Year: 87
Issue Date: 8/4/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***OTTAWA CITY ALBION RD.***
ALBION RD. OTTAWA CITY ON

Database: ***CA***

Certificate #: 3-1056-88-
Application Year: 88
Issue Date: 8/17/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:

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

Site: ***ROB OAK HOLDINGS INC. SOUTHGATE COURT***
ALBION ROAD OTTAWA CITY ON

Database: ***CA***

Certificate #: 3-0745-88-
Application Year: 88
Issue Date: 5/20/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Karson Kartage & Konstruction (1994) Limited***
Lots 1 & 2, Concession 4 Ottawa Ontario Ottawa ON

Database: ***EBR***

EBR Registry No: IA02E0109
Ministry Ref No: 3864-56TL4Y
Notice Type: Instrument Decision
Notice Stage: 800484177
Notice Date: May 09, 2002
Proposal Date: January 28, 2002
Year: 2002
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (OWRA s. 53(1)) - Approval for sewage works
Off Instrument Name:
Posted By:
Company Name: Karson Kartage & Konstruction (1994) Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: P.O. Box 264, 3725 Carp Road, Carp Ontario, K0A 1L0
Comment Period:
URL:

Site Location Details:

Lots 1 & 2, Concession 4 Ottawa Ontario Ottawa

Site: ***NCG PETROLEUM LTD NORMA BUCKLEY***
PRT 1 LOT 30 CON 3 GLOUCESTER ON

Database: ***PRT***

Location ID: 20685
Type: retail
Expiry Date: 1995-06-30
Capacity (L): 0
Licence #: 0076425321

Site: ***Albion Sun Vista Development Corporation***
Lot 1, Concession 4, City of Ottawa (formerly Osgoode Township) Osgoode ON

Database: ***PTTW***

EBR Registry No: IA01E1391
Ministry Ref No: ER-14110
Notice Type: Instrument Decision
Decision Posted:
Exception Posted:
Section:

Notice Stage:
Notice Date: February 15, 2002
Proposal Date: September 27, 2001
Year: 2001
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Albion Sun Vista Development Corporation
Site Address:
Location Other:
Proponent Name:
Proponent Address: 1000 Vista Barrett Private, Greely Ontario, K3P 1C7
Comment Period:
URL:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Lot 1, Concession 4, City of Ottawa (formerly Osgoode Township) Osgoode

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Site: ***Albion Sun Vista Park (Robert H. Smith)***
Lot 1, Concession 4, Albion Sun Vista Park Osgoode ON

Database: ***PTTW***

EBR Registry No: IA8E1254
Ministry Ref No: ER-4852
Notice Type: Instrument Decision
Notice Stage:
Notice Date: October 27, 1998
Proposal Date: September 04, 1998
Year: 1998
Instrument Type: (OWRA s. 34) - Permit to Take Water
Off Instrument Name:
Posted By:
Company Name: Albion Sun Vista Park (Robert H. Smith)
Site Address:
Location Other:
Proponent Name:
Proponent Address: 1000 Vista Barrett Priv., Greely Ontario, K4P 1C7
Comment Period:
URL:
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Lot 1, Concession 4, Albion Sun Vista Park Osgoode

Site: ***MacEwen Petroleum Inc.***
Ottawa ON

Database: ***SPL***

Ref No: 8700-8QT5DV
Site No:
Incident Dt: 23-JAN-12
Year:
Incident Cause: Overturn - Truck Or Trailer
Incident Event:
Contaminant Code: 13
Contaminant Name: FUEL (N.O.S.)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Confirmed
Nature of Impact: Soil Contamination
Receiving Medium: Sewage - Municipal/Private and Commercial
Receiving Env:
MOE Response: Priority Field Response (ERP Callout)
Dt MOE Arvl on Scn: 23-JAN-12
MOE Reported Dt: 23-JAN-12
Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Tank Truck
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:

Dt Document Closed:		***SAC Action Class:***	Primary Assessment of Incident
Incident Reason:	Unknown - Reason not determined	***Source Type:***	
Site Name:	Leitram and Hawthorne <UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	MacEwen Fuels <54000L on board tanker in ditch, spill cont.		
Contaminant Qty:			

Site:

SUNSET LAKES SITE, OFF REG. RD #8 \ OSGOODE TOWNSHIP ON

Database: ***SPL***

Ref No:	93632	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	11/19/1993	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:		***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:		***Site Municipality:***	20610
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	11/19/1993	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:		***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:			
Contaminant Qty:			

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2019

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

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

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Jan 31, 2020

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.
Environment and Climate Change Canada cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: Jan 2004-Dec 2017

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Chemical Register: Private CHEM

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

Government Publication Date: 1999-Jan 31, 2020

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 - Jun 2020

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Dec 2019

Certificates of Property Use: Provincial CPU

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

Government Publication Date: 1994-Aug 31, 2020

Delisted Fuel Tanks: Provincial DELISTED TANK

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

Government Publication Date: Jul 31, 2020

Drill Hole Database: Provincial DRL

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

Government Publication Date: 1886 - Sep 2019

Environmental Activity and Sector Registry: Provincial EASR

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

Government Publication Date: Oct 2011-Aug 31, 2020

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994-Aug 31, 2020

Environmental Compliance Approval: Provincial ECA

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

Government Publication Date: Oct 2011-Aug 31, 2020

Environmental Effects Monitoring: Federal EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Jul 31, 2020

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2019

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Apr 2020

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

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

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Fuel Storage Tank - Historic: Provincial FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-Jul 31, 2020

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2017

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

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

Government Publication Date: Jul 31, 2020

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Jan 2020

National Analysis of Trends in Emergencies System (NATES): Federal NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 2018

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

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

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

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

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Mar 31, 2020

National Energy Board Wells: Federal NEBP

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

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

Government Publication Date: 1988-May 31, 2020

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-Jun 2020

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994-Aug 31, 2020

Canadian Pulp and Paper: Private PAP

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

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

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

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

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

Government Publication Date: Oct 2011-Aug 31, 2020

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.
The coronavirus pandemic is cited by the agency responsible for tank regulations and data as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994-Aug 31, 2020

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

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

Government Publication Date: 1986-2016

Record of Site Condition: Provincial RSC

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

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

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Jan 31, 2020

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.
The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: 1988-Nov 2019

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970-Aug 2018

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Oct 2011-Aug 31, 2020

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

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

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

Government Publication Date: Apr 30, 2020

Definitions

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Mandy Witteman, B.Eng., M.A.Sc.

patersongroup

POSITION

Intermediate Environmental Engineer

EDUCATION

Carleton University
M.A.Sc., Environmental Engineering, 2013
B.Eng., Environmental Engineering, 2008

MEMBERSHIPS & AWARDS

Ontario Professional Engineers Association (EIT)
NSERC Industry R&D Scholarship

EXPERIENCE

2018 – Present
Paterson Group Inc.
Consulting Engineers
Geotechnical and Environmental Division
Environmental Engineer

2014 – 2015
Thurber Engineering Limited
Oil Sand Tailings Group
Tailings Engineer

2009 – 2014
Carleton University
Department of Civil & Environmental Engineering
Research Engineer, Research Assistant & Teaching Assistant

2008 – 2009
SLR Consulting Limited
Contaminated Sites
Junior Environmental Engineer

SELECTED LIST OF PROJECTS

Phase I & II Environmental Site Assessments – NRC, Kingston
Remediation – National Capital Region, Saskatchewan
Multi-lift and dry-stacking pilot programs – Northern Alberta
Polymer amended oil sand tailings – Northern Alberta
Hydraulic cut-off wall – Allen, Saskatchewan
Cemented paste backfill systems – Northern Ontario

Mark S. D'Arcy, P. Eng.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

Associate and Supervisor of the Environmental Division
Senior Environmental/Geotechnical Engineer

EDUCATION

Queen's University, B.A.Sc.Eng, 1991
Geotechnical / Geological Engineering

MEMBERSHIPS

Ottawa Geotechnical Group
Professional Engineers of Ontario

EXPERIENCE

1991 to Present
Paterson Group Inc.
Associate and Senior Environmental/Geotechnical Engineer
Environmental and Geotechnical Division
Supervisor of the Environmental Division

SELECT LIST OF PROJECTS

Mary River Exploration Mine Site - Northern Baffin Island
Agricultural Supply Facilities - Eastern Ontario
Laboratory Facility – Edmonton (Alberta)
Ottawa International Airport - Contaminant Migration Study - Ottawa
Richmond Road Reconstruction - Ottawa
Billings Hurdman Interconnect - Ottawa
Bank Street Reconstruction - Ottawa
Environmental Review – Various Laboratories across Canada - CFIA
Dwyer Hill Training Centre – Ottawa
Nortel Networks Environmental Monitoring - Carling Campus – Ottawa
Remediation Program - Block D Lands – Kingston
Investigation of former landfill sites – City of Ottawa
Record of Site Condition for Railway Lands – North Bay
Commercial Properties – Guelph and Brampton
Brownfields Remediation – Alcan Site - Kingston
Montreal Road Reconstruction - Ottawa
Appleford Street Residential Development - Ottawa
Remediation Program - Ottawa Train Yards
Remediation Program - Bayshore and Heron Gate
Gladstone Avenue Reconstruction – Ottawa
Somerset Avenue West Reconstruction - Ottawa