220 Arkell Road, Guelph
Final Phase I Environmental Site Assessment

May 28, 2019

Prepared for:

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Stantec Consulting Ltd. (Stantec) conducted a Phase I Environmental Site Assessment (Phase I ESA) of the property at 220 Arkell Road in Guelph, Ontario, herein referred to as the "Site". The Phase I ESA was conducted for Rockpoint Holdings Inc., herein referred to as the "Client", to support development. The purpose of the Phase I ESA was to assess if evidence of potential or actual environmental contamination exists in connection with the Site, as a result of current or past activities on the Site or neighboring properties.

The Site is located at 220 Arkell Road, northeast of the intersection of Amos Road and Arkell Road in Guelph, Ontario. At the time of the site visit, the Site was occupied by a two-story residential building with a pool, a detached garage/shed and a greenhouse building. The Site was bounded by a former golf course under construction to the north; residential properties to the south; agricultural land to the east; and a woodland property to the west.

Records Review

Based on the historical information gathered during the Phase I ESA, the Site was undeveloped, wooded and/or agricultural prior to 1990 with a horse barn and several small structures. The Site was developed for residential use in early 1990s.

The northern adjacent property was occupied by a golf course since the 1970s. Residential subdivisions situated south of the Site were constructed in mid 2000s and mid-2010s. The eastern adjacent agricultural land and the western adjacent woodland remained unchanged since at least 1954. Activities on the neighboring and adjacent properties were not considered to represent a potential environmental concern to the Site.

Site Visit/Interviews

An initial site visit was conducted on September 23, 2016 and a supplemental site visit was conducted on December 13, 2018. The following potential environmental concerns were noted:

- It was reported that fill material of unknown environmental quality was used to infill a former pond located on the Site.

The presence of fill material was considered to represent a potential environmental concern to the Site. No other potential environmental concerns were identified during the site visit or through interviews with persons associated with the Site.

Conclusions

The Phase I ESA has revealed evidence of potential environmental contamination associated with the Site. The following environmental concern was identified:

- Historical use of fill material of unknown environmental quality to infill a former pond on the Site.

Stantec recommended the completion of a soil characterization program to confirm the environmental quality of soil in this area. A report summarizing the findings will be reported under separate cover.

Based on the unknown age of the detached garage/shed building, asbestos, polychlorinated biphenyls and lead containing materials may be present. A hazardous materials survey should be completed prior to any demolition activities.

The statements made in this Executive Summary are subject to the same limitations included in the Closure (Section 7.0) and are to be read in conjunction with the remainder of this report.

1.0 INTRODUCTION

1.1 OBJECTIVES

Stantec Consulting Ltd. (Stantec) conducted a Phase I Environmental Site Assessment (Phase I ESA) of the property at 220 Arkell Road in Guelph, Ontario, herein referred to as the "Site". The Phase I ESA was conducted for Rockpoint Holdings Inc., herein referred to as the "Client", to support development. The purpose of the Phase I ESA was to assess if evidence of potential or actual environmental contamination exists in connection with the Site, as a result of current or past activities on the Site or neighboring properties.

A site plan is included in **Appendix A** and selected photographs of the Site are included in **Appendix B**.

1.2 SCOPE OF WORK

The Phase I ESA carried out by Stantec on this property was conducted in general accordance with the Canadian Standards Association's (CSA) Phase I Environmental Site Assessment Standard Z768-01 (R2016) and consisted of the following:

- Records review including, but not limited to, aerial photographs, Fire Insurance Plans (if available), geological and topographic maps
- Purchase of a database report from Environmental Risk Information Services (ERIS) that consisted of a search of available databases within a 250 m radius of the boundaries of the Site
- Request to Ontario Ministry of the Environment, Conservation and Parks (MECP) for documents related to various environmental concerns associated with the Site (e.g., spills, incident reports, etc.)
- Review of available environmental databases and records
- Request to OPTA Information Intelligence Inc. OPTA) for fire insurance plans and/or property underwriters' reports/plans available for the Site
- Request to the Technical Standards and Safety Authority (TSSA) for records related to fuel storage tanks, spills, and contamination records for the Site
- Review of available previous environmental reports completed for the Site
- Interview with an individual associated with the Site
- Site visit
- Evaluation of information and preparation of the report provided herein

A Phase I ESA does not include sampling or testing of air, soil, groundwater, surface water or building materials. For this Phase I ESA, no enhancements to the CSA standard were made. This assessment did not include a review or audit of operational environmental compliance issues, or of any environmental management systems,

which may exist for the Site. The assessment of the Site for the potential presence of hazardous building materials was based on the age of the building and components, and a non-intrusive visual review of the Site. No sampling of materials was conducted. A Phase I ESA does not constitute a Hazardous Materials Survey or Designated Substances Survey.

The assessment of the Site for microbial contamination and moisture damage was made during the walk through of the building. This assessment was visual only and not every area was assessed. No sampling or intrusive investigation was conducted.

An initial site visit was conducted by Ms. Erika Ryter, M.A.Sc., P.Eng. of Stantec on September 23, 2016. A supplemental site visit was conducted by Mr. Aseel Kaiser, M.Sc., C.E.T., EP of Stantec on December 13, 2018 and the residential building and the green house were not accessed during this site visit. The Site and readily visible and publicly accessible portions of adjoining and neighbouring properties were observed for the presence of potential sources of environmental contamination. The site was snow-covered during the December 2018 site visit. During the site visits, Stantec was accompanied by Mr. Tom Anderson, former property owner and Mr. Bob Stan, current tenant, in 2016 and 2018, respectively. An interview was carried out during the course of the site visits to obtain or confirm information on the current and former operations at the Site. Mr. Anderson had been associated with the Site since the early 1990s and Mr. Stan had been associated with the Site since early 2018.

The professional qualifications of the project team are provided in **Appendix C**

1.3 REGULATORY FRAMEWORKS

CSA Standard Z768-01 (R2016) establishes principles and practices that are applicable to a Phase I ESA. The purpose of a Phase I ESA is to identify actual and potential site contamination. Such identification involves the evaluation and reporting of existing information collected through records review, site visits, and interviews. Phase I ESAs may assist in reducing uncertainty about potential environmental liabilities and may be a basis for further investigation of a property. Phase I ESAs may be used to make informed decisions about property transactions, to identify certain baseline environmental conditions, to assist in meeting regulatory requirements, and as an initial step in site remediation. This Phase I ESA, however, was not completed for the purposes of meeting the Record of Site Condition (RSC) requirements described in Ontario Regulation 153/04, as amended.

Because a Phase I ESA does not include such tasks as sample gathering, laboratory testing, or intrusive investigations, a Phase I ESA report can, in most cases, only describe the potential of contamination being present or absent at a property. If there are previous soil or groundwater sample results available, the data can be compared to applicable Federal and/or Provincial numerical standards for soil and groundwater quality for specific land and groundwater uses. A Phase I ESA performed in accordance with the requirements of CSA Standard Z768-01 (R2016) is intended to reduce, but not necessarily eliminate, uncertainty regarding the potential for contamination of a property.

In addition, a Phase I ESA in accordance with the requirements of CSA Standard Z768-01 (R2016) involves a review of any site buildings for the potential presence of hazardous materials related to building components and materials. Specific Federal and/or Provincial regulations, guidelines or codes of practice exist for the individual hazardous materials. Where required, this documentation was used to determine appropriate conclusions and formulate appropriate recommendations.

2.0 RECORDS REVIEW

2.1 INFORMATION SOURCES

The applicable search distance for the records review included the Site, properties immediately adjoining the Site and other neighbouring properties where activities considered to be potential sources of environmental contamination were apparent. Information sources obtained and reviewed as part of the records review are listed below:

SOURCE	INFORMATION/CONTACT
Aerial Photographs	1954, 1969, 1971, 1975 and 1990 - ERIS, 2006, 2009, 2013, 2016 and 2017 - Google Earth Imagery
Fire Insurance Plans	OPTA - No Fire Insurance Plans were found for the Site and the study area
City Directories	City directories searches were not completed due to other available data, property type and property location.
Previous Environmental Reports	No previous environmental reports were provided No company records were provided to Stantec for review.
Geological and Geotechnical Reports	Geotechnical Investigation, 220 Arkell Road Guelph ON, prepared by Stantec dated May 2019 Hydrogeological Assessment, 220 Arkell Road Guelph ON, prepared by Stantec dated May 2019
Regulatory Infractions	A request submitted to the MECP's Freedom of Information and Protection of Privacy Office included a search for occurrence reports and general information from the District Office, investigation documents from the Investigations and Enforcement Branch, and orders from the Sector Compliance Branch pertaining to the municipal address of the Site and current/former tenants and owners of the Site.
Reportable Spill Occurrences	ERIS - Ontario Spills

Records Review
5/28/2019

Contaminated Sites	"Inventory of Coal Gasification Plant Waste Sites in Ontario" (April 1987) "Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario" (November 1988) Ecolog ERIS - MECP Brownfields Environmental Site Registry
Hazardous Waste Generator Registration	ERIS - Ontario Regulation 347 Waste Generators Summary ERIS - MECP Hazardous Waste Information Network (HWIN) Registered Generator List
PCB Storage Sites	ERIS - Ontario Inventory of PCB Storage Sites, National PCB Inventory
Landfill Records	"Waste Disposal Site Inventory" (MOE, June 1991)
Underground & Aboveground Storage Tanks	ERIS (various databases)
Other Available Information	Ontario Geological Survey 2010. Surficial Geology of Southern Ontario, Data 128-REV, Scale 1:50,000 Ontario Geological Survey 2011. Bedrock Geology of Ontario; Data 126-Revision 1, Scale 1:250,000 Topographic mapping available from the Ontario Ministry of Natural Resources and Forestry online mapping obtained September 04, 2018.
Water Well Records	ERIS - Water Well Information System
Environmental Risk Information Services (ERIS)	A database report was purchased from ERIS on September 10, 2018 that consisted of a search of available databases within a 250 m radius of the boundaries of the Site.

2.2 PREVIOUS REPORTS

No previous environmental reports were provided to Stantec for review.

2.3 REGULATORY INFORMATION

Available environmental databases and records were searched to determine if the Site, adjacent and/or neighbouring properties were listed. The relevant information relating to potential environmental concerns at the Site are presented below. Supporting documentation is included in **Appendix D**.

MECP Freedom of Information and Privacy Protection Office

A request submitted to the MECP's Freedom of Information and Protection of Privacy Office included a search for occurrence reports and general information from the District Office, investigation documents from the Investigations and Enforcement Branch, waste generator information from the Environmental Monitoring and Reporting Branch, Certificates of Approval from the Environmental Assessment and Approvals Branch, and orders from the Sector Compliance Branch pertaining to the municipal address of the Site and current/former tenants and owners of the Site.

A response from the MECP indicated that no records were found for the Site. A copy of the MECP response is provided in **Appendix D**.

Technical Standards and Safety Authority

A request to the TSSA included a search of outstanding instructions, incident reports, fuel oil spills, contamination records, retail facilities or licensed underground storage tanks was submitted pertaining to the Site. It should be noted, however, that the Fuels Safety Division of the TSSA did not register private fuel underground or aboveground storage tanks prior to January 1990, or fuel oil tanks prior to May 1, 2002. Further, private waste oil tanks in apartments, office buildings, residences, etc. and aboveground gas or diesel tanks are not registered with the TSSA.

No records were found for the Site in the TSSA database. A copy of the TSSA response is provided in **Appendix D**.

Inventory of Coal Gasification Plant Waste Sites in Ontario (dated April 1987)

No properties within 1 km of the Site were listed as former coal gasification plant waste properties.

Inventory of Industrial Sites Producing or Using Coal Tars in Ontario (dated November 1988)

No properties within 1 km of the Site were listed as former coal tar industrial properties.

MECP Waste Disposal Site Inventory (dated June 1991)

No properties within 250 m of the Site were listed as waste disposal sites in the databases searched by ERIS.

Stantec searched the MECP Waste Disposal Site Inventory for active and closed waste disposal sites within 1 km of the Site. No waste disposal sites were found to be located within 1 km of the Site.

Records Review
5/28/2019

HWIN Registered Generator List

The ERIS report indicated that the neighbouring property to the north was registered with the MECP for the generation of various hazardous wastes. These are discussed in Section 5.8, and the complete ERIS report is provided in **Appendix D**.

Ontario Inventory of PCB Storage Sites and National PCB Inventory

According to ERIS, a search of PCB storage site databases indicated that neither the Site nor adjacent and/or neighbouring properties were listed as a PCB Storage Site.

MECP Brownfields Environmental Site Registry

According to a search completed by ERIS, no RSCs under O.Reg. 153/04 (Part XV.1 of the Environmental Protection Act) were identified for the Site and two RSCs were identified for a neighboring property to the south within 250 m of the Site boundary. These are discussed in Section 5.8, and the complete ERIS report is provided in **Appendix D**.

ERIS

An ERIS report was purchased and consisted of a search of available databases within a 250 m radius of the Site property boundary. A complete copy of the report is included in **Appendix D.** Pertinent records pertaining to the adjoining/ neighboring properties are summarized in section 5.8. No pertinent records were identified for the Site.

- *220 Arkell Road (the Site)*
    - No records were found in the ERIS report that represent a significant potential environmental concern to the Site. ERIS Historical Searches is the only listing found in the ERIS report for the Site

OPTA

Historical insurance inspection reports/plans, and Fire Insurance Plans were not found as part of the OPTA search.

2.4 PHYSICAL SETTING

2.4.1 Surficial Geology

Based on an available surficial geology map (Ontario Geological Survey Map 2556), the native surficial soils of the Site consist of Glaciofluvial deposits including river, delta and sandy deposits.

In April 2017, Stantec conducted a geotechnical investigation and advanced four boreholes to a maximum depth of approximately 8.2 m below ground surface (m BGS) at the Site as summarized in Stantec's 2019 Hydrogeological Assessment report. The subsurface conditions encountered in the boreholes generally consisted of topsoil and a veneer of sand, or fill, overlying glacial till. The glacial till generally comprised silty

sand and gravel till. Groundwater was perched in fill or sand deposits above the glacial till or contained in saturated seams within the glacial till. Bedrock was not encountered in the boreholes advanced at the Site for this investigation. The fill was identified in a borehole advanced in the location of the former pond. The presence of fill material of unknown environmental quality represents a potential environmental concern to the Site.

Several historical records for abandoned wells, boreholes and water wells in the vicinity of the Site were included in the ERIS report. The stratigraphy identified sand, gravel and silt overburden to a depth of up to approximately 40 m BGS

2.4.2 Surface Water Drainage

Other than the site buildings, the majority of the Site was generally covered by vegetated and grassy areas. Stormwater collected on the landscaped or grassy areas likely drains by infiltration and/or overland flow.

2.4.3 Topography and Regional Drainage

The Site was observed to be generally flat with a gentle slope upwards to the north, and generally at grade with the adjacent properties.

Based on observed topography and information accessed from the Ministry of Natural Resources and Forestry (MNRF) online mapping, the northern portion of the Site drainage (and anticipated shallow groundwater flow direction) appears to be to the north/northeast towards Torrance Creek, located approximately 400 m northeast of the Site.

According to Stantec's 2019 Hydrogeological Assessment report for the Site, groundwater flows horizontally through the subsurface overburden deposits to the south and southwest towards the wooded portion of the Site and the western adjacent woodland (Torrance Creek Swamp). Hence, the central and southern portion of the Site drainage appears to be to the south/southwest.

It should be noted that the direction of the shallow groundwater flow in limited areas can also be influenced by the presence of underground utility corridors and is not necessarily a reflection of regional or local groundwater flow or a replica of the Site or area topography.

2.4.4 Bedrock Geology

Based on an available bedrock geology map (Ontario Geological Survey Map 2544), bedrock in the area of the Site consists of Guelph Formation which includes sandstone, shale, dolostone and siltstone.

Bedrock was not encountered during the geotechnical investigation completed by Stantec to a maximum depth of 8.2 m BGS. According to the borehole information provided in the ERIS report, bedrock was encountered in the vicinity of the Site at depths between 10 m BGS to 40 m BGS.

3.0 SITE DESCRIPTION

3.1 PROPERTY INFORMATION

The Site is located at 220 Arkell Road northwest of the intersection of Amos Road and Arkell Road in Guelph, Ontario as shown on **Figure No. 1** in **Appendix A**.

At the time of the site visit, the Site was occupied by a two-story residential building and a detached garage/shed. The Site was bounded by a former golf course under construction to the north; residential properties to the south; agricultural land to the east; and a woodland property to the west.

A Parcel Register Search was obtained from Geowarehouse for the Site. Relevant information from the Parcel Register is outlined below:

Current Site Owner:	Rockpoint Properties Inc.
Legal Description:	Part South 1/2 of Rear Part of Lot 6, Concession 8, Township of Puslinch, as in R0662220; Guelph
Property Area:	Approximately 72,000 square metres
Utility Providers:	
Water:	City of Guelph
Storm and Sanitary Sewers:	Private Septic System
Electricity:	Guelph Hydro Electric Systems Inc.
Natural Gas:	Union Gas Limited

3.2 ONSITE BUILDINGS AND STRUCTURE

The site buildings consist of a two-storey, irregularly shaped residential building with a basement, as well as a detached garage/shed and a single-story greenhouse located south and west the residential building, respectively, as shown on Figure No. 1. The general exterior construction of the residential building was observed to be brick/stone masonry with shingles roofing and the general exterior construction of the garage/ shed building was observed to be metal siding.

3.3 HISTORICAL LAND USE

Historical land use for the Site was determined through a review of historical records listed in Section 3.0. A summary of the historical information is presented below.

Period/Date:	Land Use:
1954	Agricultural, Woodland and/or Undeveloped Based on the available aerial photographs, the Site appeared to be agricultural and woodland or undeveloped. No structures were observed on the Site.
1969	Agricultural, Woodland and/or Undeveloped A review of the 1969 aerial photograph indicated that a driveway was constructed on the Site. A structure was observed near the end of the driveway within the vicinity of the current greenhouse location.
1975	Agricultural/ Woodland Based on a review of the available aerial photograph, a structure was built within the vicinity of the current garage/shed building and is likely to be a portion of the current garage/shed building.
1990	Based on a review of the aerial photograph, earth work activities appear to take place in the vicinity of the current residential building. Due to the aerial photograph quality, it was unclear whether any bodies of water, such as ponds, existed at the Site.
2006, 2009, 2013, 2016 and 2017	The site buildings observed during the site visits are consistent in appearance and configurations as the buildings in these aerial photographs. No ponds or bodies of water were visible on the Site in these aerial photographs.

4.0 SITE VISIT FINDINGS

4.1 CURRENT SITE OPERATIONS

The Site is currently occupied by a residential building, greenhouse and a detached garage/shed building. At the time of the site visits, the Site was occupied for residential use. No potential environmental concerns were identified. The detached garage was used for vehicle and equipment storage as well as minor repairs to personal vehicles and equipment.

The current site use is not expected to represent an environmental concern to the Site.

4.2 WASTE GENERATION AND STORAGE

4.2.1 Solid and Liquid Wastes

No wastewater discharges other than domestic wastewater was identified to be produced on the Site at the time of the site visits.

No hazardous waste generation or storage was identified to be conducted on the Site.

4.2.2 Drains, Sumps, Septic Systems and Oil Water Separators

During the initial site visit, two sumps were observed in the basement of the residential building. The sumps appeared in good condition with no staining observed. The residential building was reportedly serviced with a septic system for domestic wastewater.

No other sumps, septic systems, separators or interceptors were identified at the Site.

4.2.3 Air Discharges and Odours

No sources of air emissions that are suspected to result in residual contamination to the property were identified on the Site. Further, no strong, pungent, or unusual odours were identified during the site visit.

4.3 FUEL AND CHEMICAL STORAGE

4.3.1 Underground Storage Tanks (USTs)

No chemical or fuel USTs were observed or reported to be present at the Site. Further, no vent or fill pipes indicating the potential presence of any unknown abandoned or decommissioned UST were observed on the Site.

4.3.2 Above Ground Storage Tanks (ASTs)

During the 2016 site visit, two propane ASTs were observed at the Site.

4.3.3 Other Storage Containers

Small quantities of commercially packaged cleaning chemicals, antifreeze coolants, brake fluids, and degreasers were observed to be stored in the garage/ shed building for minor repairs to personal vehicles during the 2018 site visit. A portable gasoline tank used for lawn mowers was stored near the garage/shed building during the 2016 site visit

4.4 BUILDING SYSTEMS/EQUIPMENT

4.4.1 Heating and Cooling Systems

Based on observations made during the site visit, the residential building is provided with heating via a propane-fired furnace. Two air conditioning units were noted during the 2016 site visit.

4.4.2 Hydraulic Equipment

No hydraulic equipment was observed on the Site during the site visits.

4.5 EXTERIOR SITE OBSERVATIONS

4.5.1 Surface Features

The residential building is surrounded by asphalt pavement and landscaped areas including grass, low-lying vegetation and trees. A wooded area was observed west of the Site.

No stained surficial materials or stressed vegetation was observed on the Site. No watercourses, pits or lagoons were identified on the Site and no standing water was observed.

4.5.2 Fill Materials

A pond was historically located southwest of the residential building and was reportedly infilled with fill material of unknown environmental quality. The presence of fill material represents a potential environmental concern to the Site.

4.5.3 Wells

During the initial site visit, a water supply well was identified west of the residential building and was surrounded by a landscaped area. It was reported that the well depth was approximately 50 m BGS.

Site Visit Findings
5/28/2019

Four monitoring wells were installed at the Site in 2017 to support Stantec's hydrogeological assessment. Two of the wells were located near the eastern boundary of the Site; one well was located in the northwestern portion of the Site; and one well was located on the southern portion of the Site. No other abandoned or existing wells (water, oil, gas or disposal) were identified or reported on the Site.

Water wells were identified within 250 m of the Site, as detailed in the ERIS report in **Appendix D**.

4.6 HAZARDOUS BUILDING MATERIALS

4.6.1 Asbestos-Containing Materials (ACMs)

The common use of friable (crumbles easily by hand pressure) asbestos-containing materials (ACMs) in construction generally ceased voluntarily in the mid-1970s but was only banned through legislation in the mid-late 1980s. Asbestos was used in thousands of building products and the common uses of friable ACMs included boiler and pipe insulation, and spray-on fireproofing. Asbestos was also used in many manufactured products such as floor tiles, ceiling tiles, transite cement products and various other construction materials. Some cement drain piping currently used in the construction of buildings still contains asbestos (non-friable). Vermiculite used as insulation may be contaminated with asbestos fibres.

As of November 1, 2005, Ontario has introduced an asbestos regulation (Ontario Regulation 278/05 made under the Occupational Health and Safety Act) obligating owners to implement an Asbestos Management Program (AMP) at their facilities if friable or non-friable asbestos is known or suspected to be present. A component of the AMP requires the preparation of an asbestos record to identify locations of confirmed or suspected asbestos-containing materials (ACM). Based on these requirements, it is recommended that an assessment to identify the locations of known or suspected asbestos-containing materials be undertaken at the subject facility. Should friable or non-friable ACMs be identified or presumed to be present, an Asbestos Management Program should be implemented for the subject facility. Asbestos surveys of buildings (including additions) constructed prior to 1990 should include all suspected friable and non-friable building materials. Surveys of buildings (and additions) constructed in 1990 or later can be limited to cement-based non-friable materials and gasket materials. Asbestos surveys undertaken for the subject facility completed prior to November 1, 2005 should be reviewed and reassessed to determine if they meet the requirements of Ont. Reg. 278/05.

Based on the age of the residential building (built in the early 1990s), ACMs are not expected; however, depending on the age of the shed (possibly built in the mid-1970s) ACMs may be present.

4.6.2 Polychlorinated Biphenyls (PCBs)

From the 1930s to the 1970s, PCBs were widely used as coolants and lubricants for electrical equipment, including transformers and capacitors, and in a number of industrial materials, including sealing and caulking compounds, inks and paint additives. The use of PCBs was prohibited in heat transfer and electrical equipment installed after September 1, 1977, and in transformers and capacitors installed after July 1, 1980. Regulations now require that PCB containing equipment be taken out of service prior to regulated deadlines.

Based on the construction date of the residential building (early 1990s), PCB-containing electrical equipment is not expected to be present at the Site; however, depending on the age of the shed PCBs may be present.

4.6.3 Lead-Based Materials

In 1976, the lead content in interior paint was limited to 0.5% by weight under the federal *Hazardous Products Act*. Lead based water supply pipes were used greater than 50 years ago. Between 1930 and 1986, most buildings used copper pipe with lead-solder joints. Other lead-based products include wall shielding (x-ray rooms).

Based on the age of the residential building (built in the early 1990s), lead-based products are not expected; however, depending on the age of the shed (possibly built in the mid- 1970s) lead-based products may be present.

4.6.4 Urea Formaldehyde Foam Insulation (UFFI)

Urea Formaldehyde Foam Insulation (UFFI) was used as an insulation product for existing houses between the mid-1970s and its ban in Canada in 1980. It was not commonly used for commercial or industrial buildings.

Based on the age and nature of the site building, UFFI was not expected to be present at the Site. No evidence of the application of UFFI was observed during the site visit

4.6.5 Ozone-depleting Substances (ODSs)

Refrigeration and air conditioning equipment in place before 1998 may contain refrigerants containing ozone-depleting substances (ODS). Non-ODS refrigerants have been developed and are available to replace these materials in newer equipment.

Sources of ODSs at the Site were limited to minor quantities of refrigerant in refrigeration equipment and air conditioning units

4.7 SPECIAL ATTENTION ITEMS

4.7.1 Radon Gas

Radon is a radioactive gas associated with uranium rich black shale and/or granite bedrock. Radon emits alpha particles and produces several solid radioactive products called radon daughters. Harmful levels of radon and radon daughters can accumulate in confined air spaces, such as basements and crawl spaces.

There are insufficient existing data available to make an accurate assessment of the potential for radon gas issues at this Site. Such conditions would have to be determined by the completion of a study which is beyond the scope of work of this project.

4.7.2 Microbial Contamination (Mold) and Indoor Air Quality

The growth of mold in indoor environments is typically due to a moisture problem related to building envelope or mechanical systems deficiencies or design and can produce adverse health effects. There is no practical way to eliminate all mold and mold spores in the indoor environment. The way to control mold is to control moisture.

A former leak around a skylight and chimney in the residential building was reported during the 2016 site visit. No visual evidence of suspected mould growth was observed or reported during the site visits.

4.7.3 Electromagnetic Frequencies (EMFs)

Electrical currents induce electromagnetic fields. No scientific data supports definitive answers to questions about the existence or non-existence of health risks related to electromagnetic fields.

No high-voltage transmission lines or electrical substations, which could generate significant electromagnetic fields, were identified on the Site.

4.7.4 Noise and Vibration

The effects of noise and vibration on human health vary according to the susceptibility of the individual exposed, the nature of the noise/vibration and whether exposure occurs in the working environment or in the home.

No major or persistent sources of noise and vibration were identified on the Site at the time of the site visit.

4.8 NEIBOURING PROPERTY INFORMATION

The current activities on neighbouring properties observed at the time of the site visit and a summary of historical information gathered through the records review are presented in the following sections.

North of the Site

The adjacent property to the north of the Site was formerly a golf course and was under redevelopment between 2016 to present. Prior to the development in the 1970s, the northern adjacent property was agricultural/undeveloped based on the available aerial photographs. Victoria Park Golf Club West was listed as a generator of petroleum distillates, waste oil and lubricants between 2002 and 2012. Fuel storage tanks and historical fuel storage tanks records showed that Victoria Park Golf Club West was listed as a private fuel outlet for a self-serve including a single wall horizontal AST for gasoline (2200 L capacity) and diesel (1360 L capacity), both ASTs were listed as active.

Based on the inferred groundwater flow direction to the north/northeast in the northern portion of the Site, the operations on the northern adjacent property are not expected to represent an environmental concern to the Site. No evidence of fuel and chemical storage was found adjacent to the Site during the 2016 site visit and the portion of this property adjacent to the Site was under construction in 2018.

Site Visit Findings
5/28/2019

East of the Site

The property east of the Site has been agricultural/woodland between 1954 and present.

South and Southeast of the Site

Adjacent and neighbouring properties to the south of the Site have been occupied by residential subdivisions since between the mid-2000s and the mid-2010s. The residential subdivisions located north of Arkell Road and south of Arkell Road were built in the mid-2000s and the mid-2010s, respectively. In 2013, two listings of Record of Site Conditions in the Ecolog ERIS report were filed with the MECP for the southern adjacent property in order to develop the land from agricultural use to residential and parkland use.

Two spill to land records were found in the ERIS report including:

- In March 2015, a spill incident of possible hydraulic oil leak of unknown quantity into snow on cul de sac took place at 25 Coutts Court, approximately 65 m south of the Site
- In May 2007, a spill incident of 400 L of diesel fuel occurred due to garbage truck rollover at an intersection located approximately 225 m southeast of the Site

These spills are not expected to represent a potential environmental concern to the Site, based on the distance and/or the inferred groundwater flow direction to the south/southwest in the southern portion of the Site.

West and Southwest of the Site

The adjacent property to the west of the Site has been undeveloped/woodland between 1954 to present. Neighboring properties to the southwest along Arkell Road have been occupied by residential properties since the late 1960s. Additionally, a Municipal Drinking Water System (Burke Well Station) is located approximately 190 m southwest of the Site. An engine oil leak incident with unknown quality occurred at the Burke Well Station in 2017. Based on the distance from the Site, approximately 190 m southwest of the Site, the spill is not expected to represent a potential environmental concern to the Site.

4.9 CLIENT-SPECIFIC ITEMS

No specific Client requests were made with respect to this Phase I ESA.

5.0 CONCLUSIONS

The Phase I ESA has revealed evidence of potential environmental contamination associated with the Site. The following environmental concern was identified:

- Historical use of fill material of unknown environmental quality to infill a former pond on the Site.

Stantec recommended the completion of a soil characterization program to confirm the environmental quality of soil in this area. A report summarizing the findings will be reported under separate cover.

Based on the unknown age of the detached garage/shed building (possibly built in the mid-1970s), asbestos, PCBs and lead containing materials may be present. A hazardous materials survey should be completed prior to any demolition activities.

6.0 CLOSURE

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

This report provides an evaluation of selected environmental conditions associated with the identified portion of the property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

The opinions in this report can only be relied upon as they relate to the condition of the portion of the identified property that was assessed at the time the work was conducted. Activities at the property subsequent to Stantec's assessment may have significantly altered the property's condition. Stantec cannot comment on other areas of the property that were not assessed.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available and the results of the work. They are not a certification of the property's environmental condition. This report should not be construed as legal advice.

This report has been prepared for the exclusive use of the client identified herein and any use by any third party is prohibited. Stantec assumes no responsibility for losses, damages, liabilities or claims, howsoever arising, from third party use of this report.

This report is limited by the following:

- The fenced area at the northwestern corner of the Site and the heavily wooded area at the southwestern corner of the Site were not assessed/accessed
- The residential building and the greenhouse were not assessed during the 2018 site visit
- The site was snow-covered during the 2018 site visit

The locations of any utilities, buildings and structures, and property boundaries illustrated in or described within this report, if any, including pole lines, conduits, water mains, sewers and other surface or sub-surface utilities and structures are not guaranteed. Before starting work, the exact location of all such utilities and structures should be confirmed and Stantec assumes no liability for damage to them.

Closure
5/28/2019

The conclusions are based on the site conditions encountered by Stantec at the time the work was performed at the specific testing and/or sampling locations, and conditions may vary among sampling locations. Factors such as areas of potential concern identified in previous studies, site conditions (e.g., utilities) and cost may have constrained the sampling locations used in this assessment. In addition, analysis has been carried out for only a limited number of chemical parameters, and it should not be inferred that other chemical species are not present. Due to the nature of the investigation and the limited data available, Stantec does not warrant against undiscovered environmental liabilities nor that the sampling results are indicative of the condition of the entire site. As the purpose of this report is to identify site conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the site is beyond the scope of this assessment.

Should additional information become available which differs significantly from our understanding of conditions presented in this report, Stantec specifically disclaims any responsibility to update the conclusions in this report.

Appendix A

Site Plan

Stantec

Legend

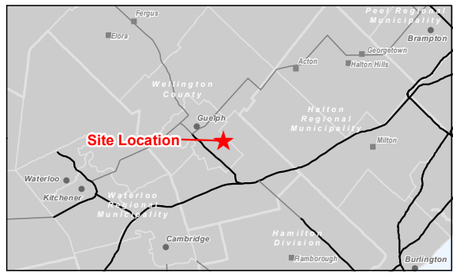
Approximate Site Boundary

0 40 80 metres

1:2,500 (At original document size of 11x17)

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2019.
3. Orthoimagery © First Base Solutions, 2019. Imagery Date, 2018.
4. Site features are based on field observations and should be considered approximate.
5. This figure is to be viewed in the context of the accompanying report and is subject to the limitations specified in that report.



Project Location
220 Arkell Road, Guelph Ontario

161423338 REVA
Prepared by SVD on 5/23/2019

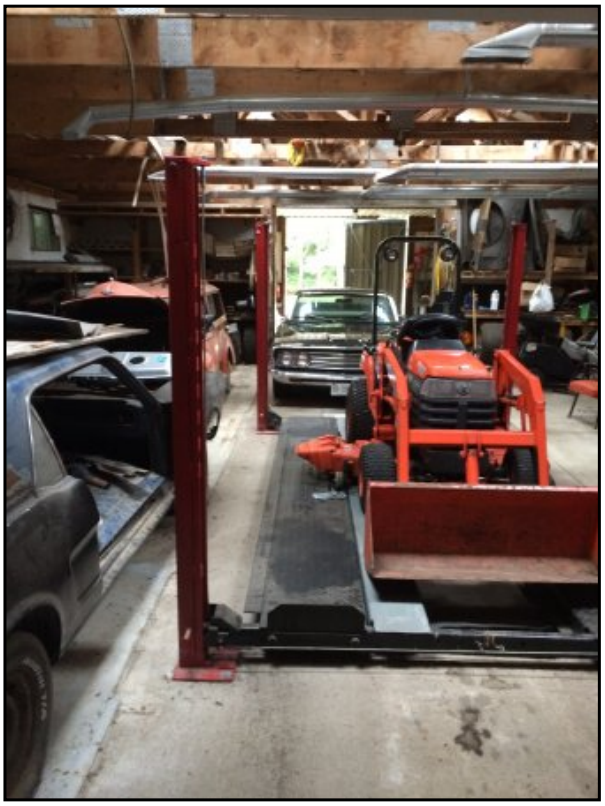
Client/Project
Phase I ESA
Carson Reid Homes
220 Arkell Road, Guelph Ontario

Figure No.
1

Title
Site Plan

Appendix B

Photographs



View of the interior of the garage/shed, located south of the Site in 2016

View of the former pond area, facing west in 2016

View of the residential building,facing northeast in 2018

Appendix C

Assessor Qualifications

Aseel Kaiser M.Sc., C.E.T., EP

Environmental Scientist

Aseel Kaiser, M.Sc., C.E.T., EP, is an Environmental Assessor and Project Manager in training with the Site Investigation, Remediation, and Risk Team at Stantec. Mr. Kaiser completed his master's thesis from the University of Waterloo in the field of water quality and ecosystems interaction and has eight (8) years of consulting experience. He has experience in the field with groundwater monitoring and sampling, drilling, excavation and remediation supervision. He also has experience with Phase I ESA, Phase II ESA, and Contamination Overview Study reporting and the preparation of Permit to Take Water applications and reporting. Prior to his consulting experience, Aseel spent two years working on the restoration of Iraqi wetlands project between 2003 and 2005.
Mr. Kaiser is registered as a Certified Engineering Technologist (C.E.T.) and an Environmental Professional (EP) and is also a volunteer member of Halton Region's Natural Heritage Advisory Committee.
Mr. Kaiser has been involved in both private and public sectors including tens of large-scale projects related to both municipal and provincial transportation projects.

EDUCATION

Bachelor of Science in Biology, University of Baghdad, Baghdad, Iraq, 2002

Master of Science in Environmental Research, University of Waterloo, Waterloo, Ontario, 2009

CERTIFICATIONS & TRAINING

Standard First Aid – CPR C -AED, St. John Ambulance, Oakville, Ontario, 2018

WHMIS Certification, Acute Environmental and Safety Services Inc., Waterloo, Ontario, 2011

40-Hour OSHA Health and Safety Training Certificate, Acute Environmental and Safety Services Inc., Waterloo, Ontario, 2011

REGISTRATIONS

Environmental Professional, Environmental Careers Organization of Canada (ECO Canada)

Certified Engineering Technologist #876395, Ontario Association of Certified Engineering Technicians & Technologists

MEMBERSHIPS

Volunteer Member (Citizens Representative) , Halton Region Natural Heritage Advisory Committee

PROJECT EXPERIENCE

Environmental Assessment and Permitting

Permit to Take Water (PTTW) Reporting and Applications*, Mississauga, Ontario (Environmental Scientist)

Prepared three (3) PTTW reports and applications for three (3) different sections of the transitway to accommodate building bus stations and bridges as part of a high-efficiency transit corridor running east-west across Mississauga. The Transitway supports all-station stop and extensive express bus service.

** denotes projects completed with other firms*

Aseel Kaiser M.Sc., C.E.T., EP

Environmental Scientist

Phase I & II Environmental Site Assessments

Private and Public Sectors* (Environmental Scientist)

Conducted Phase I Environmental Site Assessments (ESAs), Phase II ESAs, and remediation projects at a wide variety of chemical manufacturing, distribution plants, commercial, industrial and/or government properties including MTO projects. The sites typically contained chemical/oil storage tanks and were impacted with a broad range of inorganic and organic chemicals, including both dense and light non-aqueous phase liquids (DNAPLs and LNAPLs). Additionally, supervised in-situ remediation of groundwater impacted with different chemicals using injection of oxidants into the groundwater. Groundwater monitoring events were conducted after injection of oxidants.

Groundwater Monitoring

Groundwater Monitoring Program*, Newmarket, Ontario (Environmental Scientist)

Conducted extensive groundwater sampling and wells assessment of over 400 existing monitoring wells to determine contaminated sites along few kilometers stretch in Newmarket, Ontario for York Region.

Residential Water Wells Sampling Program*, Oakville, Ontario (Environmental Scientist)

Performed site visits on biannual basis and reports preparation, in addition to preparing tailored letters to affected residents. Salt release from a municipal patrol yard into the groundwater feeding a new subdivision occurred after building a new subdivision in the Town of Milton.

Collected untreated groundwater samples from residential and commercial properties around the contamination source, as well as groundwater samples from monitoring wells in the Patrol Yard (source of contamination). Surface water sampling from northern and southern locations near the patrol yard was conducted, as well.

Groundwater Monitoring/Environmental Monitoring* (Environmental Scientist)

Conducted daily, weekly and monthly monitoring program at the site including over 60 monitoring wells (overburden and bedrock). Petroleum release from a pipeline had impacted soil and groundwater along Bronte Creek. Two (2) groundwater Pump and Treat (P&T) systems were installed. These P&T systems were intended to control, capture and treat the PHC groundwater plume, and consisted of linear array of approximately 40 shallow groundwater extraction wells at the south and north ends of the site connected to mobile 10 and 150 gallon per minute units.

Sampled surface water from Bronte Creek, groundwater from shallow and deep wells, and pump and treat system, in addition to performing containment measurements at the site.

** denotes projects completed with other firms*

Aseel Kaiser M.Sc., C.E.T., EP
Environmental Scientist

Environmental Assessment
Detailed Design Studies (Permit to Take Water (PTTW) Reporting and Applications)* (Environmental Scientist)
Responsible for compiling and summarizing various multidisciplinary background reports and communicating with the Ministry of Environment and Climate Change (MOECC) as part of PTTW reports and applications preparation, in addition to coordination with multidisciplinary teams.
Reviewed public information centers (PICs), terrestrial impact Assessments, fisheries impact assessments, hydrogeological studies, storm water management studies, and geotechnical investigations of preliminary design studies as part of class environmental assessments.
Various projects, in Ontario, were completed including construction and rehabilitation of highways, bridges, drainage pipes, culverts.

Class Environmental Assessment Studies
Preliminary Design Studies (Contamination Overview Studies and Preliminary Site Screening)* (Environmental Scientist)
Responsible for conducting site visits and report writings as part of the Preliminary Design Studies in support of various MTO projects such as highway widenings, road realignments, Bridge rehabilitations and roundabout constructions.
Projects were located across Southern Ontario and ranged from few hundred meters to several kilometers.

** denotes projects completed with other firms*

Erika Ryter M.A.Sc., P.Eng.

Environmental Engineer, Project Manager

Stantec

Erika Ryter, M.A.Sc., P.Eng., is an environmental engineer and project manager with the Site Management and Remediation group at Stantec. Ms. Ryter completed her master's thesis in the field of contaminant hydrogeology and has over 12 years of consulting experience with Stantec relating to the identification, assessment, and remediation of contaminants in various media. She has conducted and managed over 300 Phase I and II Environmental Site Assessment (ESA) and Remediation projects across Canada and has been involved in all aspects of these projects, from field work to reporting, project management and development of remedial action plans. Ms. Ryter has successfully coordinated the delivery of large-scale portfolio projects within tight timeframes to satisfy client due diligence requirements. Ms. Ryter is a quality and independent reviewer within Stantec for Phase I and II ESAs, is a licensed Professional Engineer in Ontario and is recognized by the MOECC as a Qualified Person for ESAs (QPESA) under O.Reg.153/04.

EDUCATION

Master of Applied Science in Civil Engineering, McMaster University / Civil Engineering, Hamilton, Ontario, 2007

Bachelor of Science in Engineering, University of Guelph / Environmental Engineering, Guelph, Ontario, 2002

CERTIFICATIONS & TRAINING

Special Industry Course - Construction Management Certificate, Utility Infrastructure Awareness, Canadian Construction Association, OWN Your Safety Inc., Ontario, 2018

REGISTRATIONS

Professional Engineer #100124633, Professional Engineers Ontario

PROJECT EXPERIENCE

Environmental Site Assessments Phase I, II, III

Phase I ESAs for Telecommunication Sites Across Southern Ontario (Project Manager, Quality Reviewer)

Managed a team of site assessors to complete over 75 Phase I ESAs of telecommunication sites across Southern Ontario in 2017. Conducted quality and independent review of the reports and supported the client through evaluation of potential liabilities to support acquisitions.

Phase I ESA of a Pulp and Paper Mill Facility, Thorold, Ontario (Site Assessor)

Conducted a Phase I ESA for a former pulp and paper mill including review of historical operating records, historical mapping, and review and synthesis of historical soil and groundwater analytical data to assist client in identifying potential liabilities.

Phase I Environmental Site Assessment for Wind Energy Project, Southwestern Ontario (Project Manager, Technical Reviewer)

Project management, coordination and technical review for a Phase One ESA in accordance with O.Reg.153/04 for 60 parcels of land in southwestern Ontario to identify environmental liabilities in support of client's development of the properties for a wind energy project. Managed site assessment team, organized logistics and completed technical review.

** denotes projects completed with other firms*

Erika Ryter M.A.Sc., P.Eng.

Environmental Engineer, Project Manager

Phase I Environmental Site Assessment Portfolio for Commercial Due Diligence, Ontario (Task Manager, Site Assessor)

Project management, coordination, site visits and reporting for 21 Phase I ESAs for mobile home parks across southwestern Ontario (part of a larger 70+ property portfolio). Managed site assessment team, coordinated logistics for field program, and coordinated reporting and technical review for the successful delivery of 21 reports within 8 weeks of approval to proceed.

Phase I Environmental Site Assessments, various sites Across Canada (Project Manager, Site Assessor)

Conducted or managed over 200 Phase I ESAs on both large portfolio projects and smaller single site locations. Sites include industrial facilities, warehouses, gasoline service stations, lumberyards, railways, commercial shopping centres, hotels, apartment buildings, and residential homes. Senior technical reviewer of various Phase I ESAs for residential and commercial properties.

Phase I Environmental Site Assessment Portfolio for Commercial Due Diligence, Ontario (Project Manager, Technical Reviewer)

Project management, coordination and technical review for 75 Phase I ESAs for commercial retail facilities across southwestern Ontario (part of a larger 200+ property portfolio). Managed site assessment team, organized logistics for field program, coordinated reporting and technical review for the successful delivery of 75 reports within 6 weeks of approval to proceed.

Phase I and II ESA of an Industrial Facility, Scarborough, Ontario (Project Manager, Site Assessor)

Completed a Phase I ESA of a manufacturing facility to support planning for plant decommissioning. Managed a tank removal, Phase II ESA and sub-slab vapour sampling program to support the assessment of soil and groundwater impacts associated with a former spill containment underground storage tank. Assisted the client in assessing and managing the potential risks to on-going operations associated with the identified contaminants of concern and currently working to develop recommendations for additional assessment, management and/or remediation.

** denotes projects completed with other firms*

Erika Ryter M.A.Sc., P.Eng.

Environmental Engineer, Project Manager

Phase II ESA for a Large Industrial Facility, Ontario (Project Manager)

Project manager for a Phase II ESA, screening level risk assessment and remedial action plan for a pulp and paper facility in Northern Ontario. This project was completed to assess our client's potential environmental liabilities associated with current and historical activities on their properties. The work program included the advancement of over 150 boreholes, 90 completed as monitoring wells, across more than 10 parcels of land during two field events (a total field program of 8 weeks). Erika completed a review and interpretation of a Phase I ESA completed by others, data gap analysis, developed a detailed sampling and analysis plan, managed the health and safety program and coordinated required sub-contractors including use of ground-penetrating radar to confirm locations of buried services and potential subsurface anomalies. Erika conducted on-going review and interpretation of field and laboratory analytical results and provided our client with regular updates, interpretation and recommendations, throughout the course of the field program. Contaminants of concern included petroleum hydrocarbons, volatile organic compounds, metals, inorganics, polycyclic aromatic hydrocarbons, dioxins and furans, polychlorinated biphenyls and phenols.

Phase II Environmental Site Assessments, various sites in Nova Scotia, Ontario, and Manitoba (Project Manager, Site Assessor)

Project management, coordination and field supervision for over 150 Phase II ESA projects in Nova Scotia, Ontario and Manitoba including design of sampling programs, regulatory evaluation, and design and evaluation of remedial strategies. Sites include brownfield development sites, active commercial and industrial properties, and residential developments.

Site Assessment to Support Record of Site Condition, Niagara Falls, Ontario (Project Manager)

Managed Phase One and Two ESA and remediation programs to support the assessment of a former industrial property and waste disposal facility to assist the client to identify options for development and to ultimately support the pursuit of a Record of Site Condition. Reviewed historical data, completed data gap analysis and developed soil and groundwater sampling programs to quantify the extent of impacts and worked with risk assessment team to evaluate risk assessment and remedial options.

Contaminant Overview Studies, Ontario (Quality Reviewer)

Quality reviewer for various Contaminant Overview Studies to assess potential environmental liabilities and provide recommendations for the management of excess soil and groundwater generated during construction. Projects were located across Ontario and ranged from several kilometres to nearly one hundred kilometres, associated with pipeline construction, road widenings and realignments and alternative energy projects for municipal and private sector clients.

** denotes projects completed with other firms*

Erika Ryter M.A.Sc., P.Eng.

Environmental Engineer, Project Manager

Environmental Peer Reviews (Site Assessor/Quality Reviewer)
Provided peer review support for various insurance and legal clients for various claims including fuel oil spills, impacts associated with historical buried fuel tanks, and commercial liability claims. Support included review of work programs, site assessment findings and remedial action plans. Provided data gap analyses, recommendations for further investigation, where warranted, and review and interpretation of project expenditures.

Site Management & Remediation

Home Heating Oil Remediation, Coldwater, Ontario (Project Manager)
Managed the assessment, delineation and remedial excavation of petroleum hydrocarbon impacts associated with a home heating oil release at a residential property. A spill during filling of an above-ground tank in the basement of the home resulted in the release of an unknown quantity of fuel oil in close proximity (i.e., less than 30 m) to a water body. Petroleum hydrocarbon impacts to soil were identified adjacent to and beneath the building footing and beneath the basement floor. Our initial response included an initial excavation to mitigate further migration of contaminants and the subsequent completion of a test pit and borehole program to delineate the extent of impacts to soil and groundwater and confirm that impacts had not migrated to the nearby water body. Erika subsequently managed a remediation program that included excavation of soil impacts beneath the basement floor, a conventional underpinning program to remove the impacted soil beneath the footings and backfilling and restoration.

Removal of an Underground Storage Tank and Remediation of Impacted Soil, Bracebridge, Ontario (Project Manager)
Project manager for the remedial excavation of petroleum hydrocarbon impacted soils associated with an historical buried underground storage tank. Work program included the removal and disposal of the buried tank, coordination with contractors and field staff for the assessment, delineation, and excavation of petroleum hydrocarbon impacted soils, including a borehole and monitoring well drilling program. Petroleum impacted soils were subsequently excavated and removed and the Site was remediated to meet the applicable Ontario Regulation 153/04 Site Condition Standards.

Subsurface Delineation Program, Remedial Excavation, Vapour and Indoor Air Assessment, Mississauga, Ontario (Project Manager)
Subsurface delineation, remedial excavation and a tailored vapour monitoring and risk evaluation program was completed to help our client evaluate, understand and manage potential liability associated with VOC soil and groundwater impacts on a school property. By understanding the client's risk tolerance, and appreciating the need to minimize disruption to students, the monitoring, assessment and remediation program was completed under tight timelines outside of regular school hours and during scheduled holidays.

** denotes projects completed with other firms*

Erika Ryter M.A.Sc., P.Eng.

Environmental Engineer, Project Manager

Soil Assessment, Remediation Programs and Peer Review for Furnace Oil Spills, Ontario (Project Manager, Field Supervisor)
Project management, coordination and field supervision for numerous fuel oil losses for residential properties across Ontario. Managed programs of on- and off-site assessment and delineation, developed remedial action plans, coordinated and managed remedial excavations, restoration and site closure. Provided peer review support for various claims including review of work programs, recommendations for appropriate work plans and review and interpretation of project expenditures.

Soil Remediation Program for a Furnace Oil Spill, Huntsville, Ontario (Assistant Project Manager)
Petroleum hydrocarbon impacts at a residential property were identified following a suspected fuel oil loss from an above-ground storage tank. Project management and field supervision for the excavation and disposal of impacted soil.

Site Documentation and Tender Compliance for a PCB Storage Site, Halifax, Nova Scotia (Field Supervisor)
Responsible for site documentation and supervision of deconstruction and contract compliance at a PCB remediation storage site.

Groundwater Monitoring and Assessment Programs, various sites across Canada (Project Manager, Field Supervisor, Project Coordinator)
Conducted or managed various groundwater monitoring projects including design of sampling programs, regulatory evaluation and comparison, and design and evaluation of remedial strategies.

Mediation Support, Toronto, Ontario (Environmental Engineer)
Provided peer review support to insurance company to support mitigation associated with a $5M+ claim for remediation associated with petroleum hydrocarbon impacts to soil and groundwater resulting from leaking underground storage tanks. Completed a data gap analysis and review of soil and groundwater data and remedial cost estimates to assist our client in achieving a settlement significantly less than the initial claim amount and within the Insured's policy limits.

** denotes projects completed with other firms*

Appendix D

Supporting Documentation

Ministry of the Environment, Conservation and Parks

Access and Privacy Office

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

Ministère de l'Environnement, de la Protection de la nature et des Parcs

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

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

Ontario

January 31, 2019

Aseel Kaiser
Stantec Consulting
835 Paramount Drive, Suite 200
Stoney Creek, ON L8J 0B4

Dear Aseel Kaiser:

RE: ***Freedom of Information and Protection of Privacy Act* Request**
Our File # A-2019-00452, Your Reference 161423338-810

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 220 Arkell Road, Guelph.

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

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

If you have any questions regarding this matter, please contact Junyi Cai at 416-314-4075 or junyi.cai@ontario.ca.

Yours truly,

Janet Dadufalza
Manager, Access and Privacy

345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

08 February 2019

Aseel Kaiser
STANTEC CONSULTING LTD.
Suite 200
835 Paramount Drive
STONEY CREEK ON L8J0B4

Subject: **220 Arkell Road, Guelph, Ontario**
Your File No.: **161423338-810**
SR No.: **2486428**

Dear Madam/Sir:

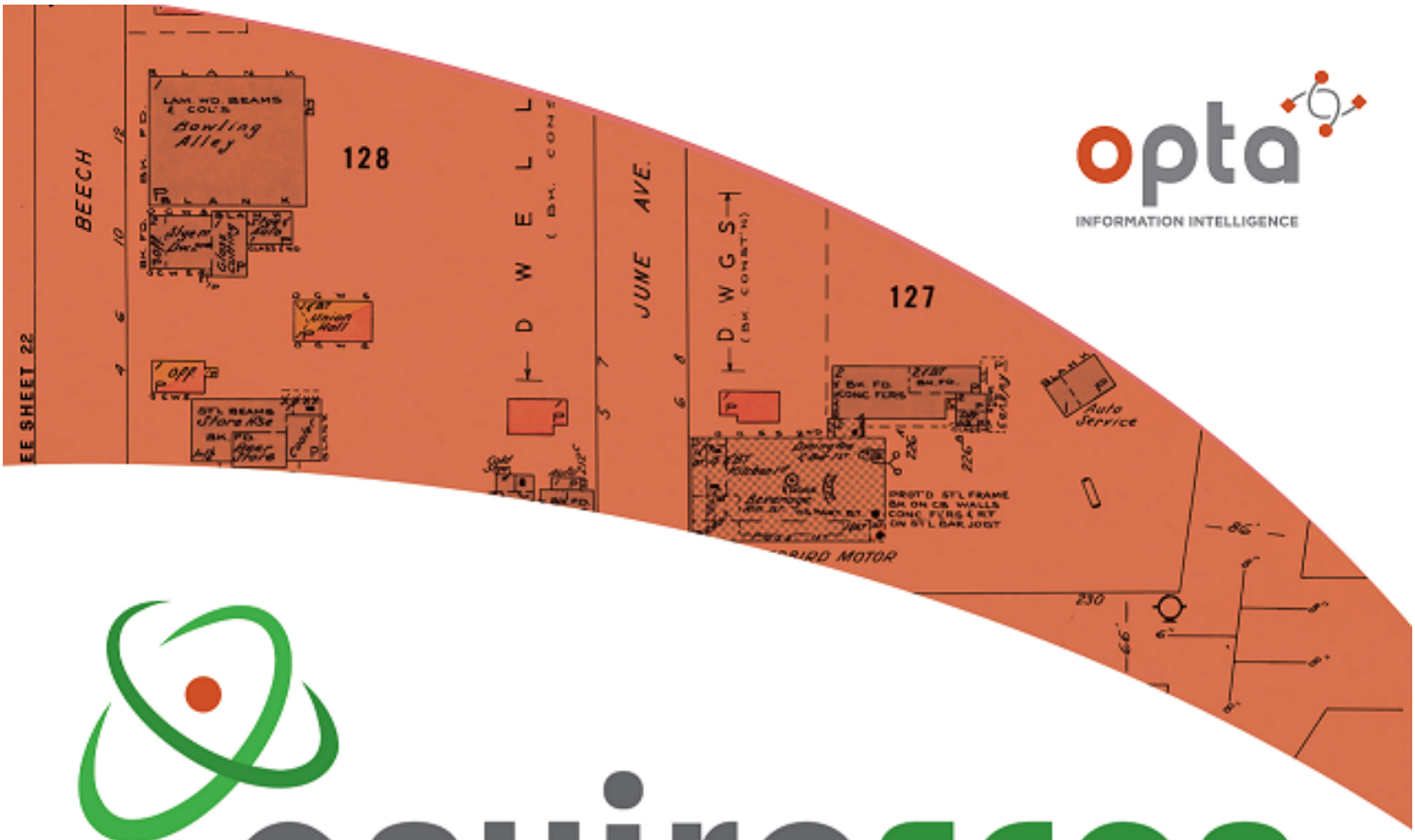
We are in receipt of your correspondence wherein you requested information regarding the above noted subject.

A search of our records did not produce the requested Fuels Safety documents.

Should you have any questions, please contact Public Information at publicinformationservices@tssa.org.

Yours truly,

Roxana Suarez-Mashtaler
Public Information Services



opta
INFORMATION INTELLIGENCE

enviroscan

An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

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

Report Completed By:

Anthony

Site Address:

220 Arkell Road Guelph ON Canada

Project No:

161423338810

Opta Order ID:

57294

Requested by:

Aseel Kaiser
Stantec Consulting Ltd.

Date Completed:

1/22/2019 8:46:25 AM

Project Name: 220 Arkell Road Guelph ON Phase I Environmental Site Assessment

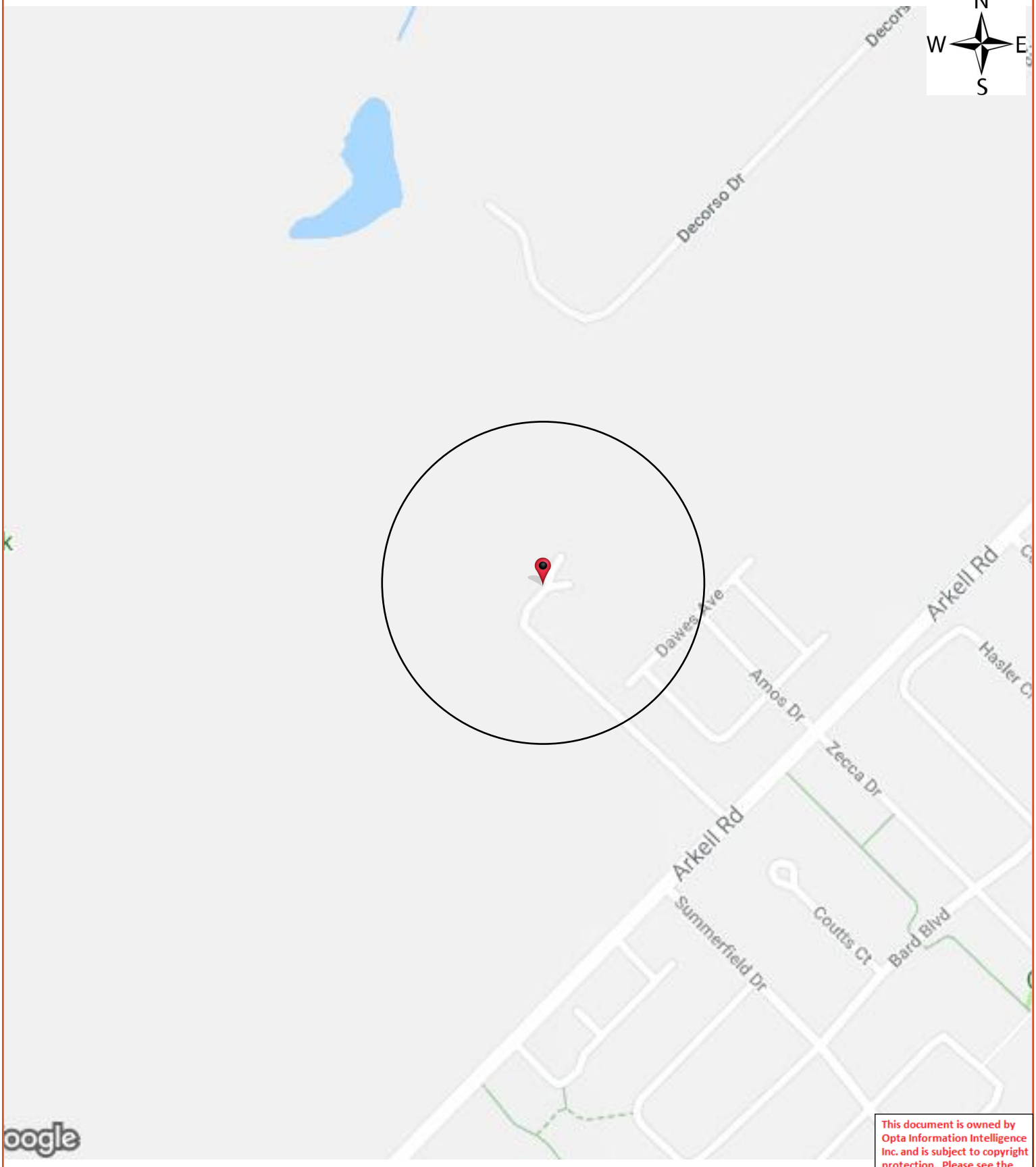
Project #: 161423338810

ENVIROSCAN Report

Search Area: 220 Arkell Road Guelph ON Canada

Requested by:
Aseel Kaiser
Date Completed: 01/22/2019 08:46:25

enviroscan
OPTA INFORMATION INTELLIGENCE



Opta Historical Environmental Services Enviroscan™ Terms and Conditions

Report

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

Disclaimer

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

Entire Agreement

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

Governing Document

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

Law

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

Project Name: 220 Arkell Road Guelph ON Phase I Environmental Site Assessment
Project #: 161423338810

ENVIROSCAN Report

No Records Found

Requested by:
Aseel Kaiser
Date Completed: 01/22/2019 08:46:25

OPTA INFORMATION INTELLIGENCE

No Records Found

N
W E
S

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*220 Arkell Road, Guelph, ON* *220 Arkell Road* *Guelph ON N1L 1E6*
Project No:	*161413338-810*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*20180824203*
Requested by:	*Stantec Consulting Ltd.*
Date Completed:	*September 10, 2018*

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

www.erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:	*220 Arkell Road, Guelph, ON* *220 Arkell Road Guelph ON N1L 1E6*
Project No:	*161413338-810*

Order Information:

Order No:	*20180824203*
Date Requested:	*August 24, 2018*
Requested by:	*Stantec Consulting Ltd.*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	0	0
CA	Certificates of Approval	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DRYCLEANERS	Dry Cleaning Facilities	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	7	7
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	1	6	7
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EXP	List of TSSA Expired Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	2	2
FSTH	Fuel Storage Tank - Historic	Y	0	2	2
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	7	7
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MISA PENALTY	Environmental Penalty Annual Report	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	3	3
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	2	2
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	4	4
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	33	33
	Total:		1	67	68

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EHS		220 Arkell Road Guelph ON **Order ID:** 467181	-/0.0	0.00	24

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	WWIS		ON **Well ID:** 7209139	SE/7.0	-3.50	24
3	WWIS		GUELPH ON **Well ID:** 7167861	N/14.6	-0.77	25
4	WWIS		ON **Well ID:** 7229605	SE/15.2	-2.22	27
5	ECA	The Corporation of the City of Guelph	Part Lots 6 & 7, Conc. 8, Former Twp. of Puslinch Guelph ON N1H 3A1	S/16.8	-4.18	28
5	ECA	The Corporation of the City of Guelph	Arkell Rd (from Gordon Street to Victoria Road) Guelph ON N1H 3A1	S/16.8	-4.18	28
5	ECA	The Corporation of the City of Guelph	Arkell Rd (from Gordon Street to Victoria Road) Guelph ON N1H 3A1	S/16.8	-4.18	28
6	WWIS		ON **Well ID:** 7169407	N/18.8	-1.42	29
7	WWIS		lot 6 con 8 ON **Well ID:** 6712543	S/19.5	-4.18	29
8	WWIS		Guelph ON **Well ID:** 7167862	N/23.0	-1.42	33
9	WWIS		Guelph ON **Well ID:** 7285694	SSE/25.0	-3.72	35
10	WWIS		Guelph ON **Well ID:** 7285695	SSE/54.9	-3.72	38

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
11	SPL		25 coutts court Guelph ON	SE/62.6	-0.72	40
12	WWIS		Guelph ON ***Well ID:*** 7167860	N/71.9	-2.79	41
13	WWIS		Guelph ON ***Well ID:*** 7285692	S/75.9	-3.72	43
14	WWIS		lot 6 con 8 ON ***Well ID:*** 6703602	SE/77.6	-0.42	46
15	WWIS		lot 6 con 8 ON ***Well ID:*** 6702590	SSE/82.6	-3.81	48
16	WWIS		Guelph ON ***Well ID:*** 7285693	SSE/88.4	-3.81	51
17	WWIS		lot 6 con 8 GUELPH ON ***Well ID:*** 7211048	SE/97.9	-0.72	53
18	WWIS		GUELPH ON ***Well ID:*** 7163099	ESE/101.3	1.28	55
19	WWIS		lot 5 con 8 ON ***Well ID:*** 6702582	NNE/118.5	-3.77	57
20	PINC		14 AMOS DR, GUELPH ON	ESE/138.8	3.99	60
20	SPL	Union Gas Limited	14 Amos Dr Guelph ON	ESE/138.8	3.99	61
21	WWIS		lot 6 con 8 ON ***Well ID:*** 6703579	SSE/143.3	-3.75	61
22	WWIS		GUELPH ON ***Well ID:*** 7163100	ESE/145.9	3.99	65

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
23	WWIS		lot 6 con 8 GUELPH ON ***Well ID:*** 7211047	ESE/148.0	6.70	67
24	WWIS		GUELPH ON ***Well ID:*** 6604906	SE/148.4	0.24	69
25	WWIS		lot 7 con 8 GUELPH ON ***Well ID:*** 6715351	SSE/152.2	-1.03	71
26	WWIS		lot 7 con 8 ON ***Well ID:*** 6714128	SSE/154.6	-0.72	72
27	WWIS		lot 6 con 8 ON ***Well ID:*** 6702589	E/163.5	6.97	73
28	WWIS		lot 7 con 8 ON ***Well ID:*** 6711291	SSE/167.4	-1.75	76
29	WWIS		Guelph ON ***Well ID:*** 7188310	S/176.9	-3.39	80
30	WWIS		lot 5 con 8 Guelph ON ***Well ID:*** 7275559	NNE/182.6	-4.57	82
31	WWIS		Guelph ON ***Well ID:*** 7236307	WNW/183.6	-5.03	84
32	ECA	The Corporation of the City of Guelph	264 Arkell Rd Part of Lot 6, Concession 8, Parts 1 and 2 of Reference Plan 61R-11714 Guelph ON N1H 3A1	ESE/183.9	7.40	87
33	ECA	The Corporation of the City of Guelph	246 Arkell Rd Part of Lot 6, Concession 8, Parts 1 and 2 of Reference Plan 61R-11714 Guelph ON N1H 3A1	ESE/184.2	7.40	87
33	EHS		246 Arkell Rd Guelph ON N1L 1E6 ***Order ID:*** 238146	ESE/184.2	7.40	87
33	EHS		246 Arkell Rd Guelph ON N1L 1E6	ESE/184.2	7.40	87

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Order ID: 238147			
33	EHS		246 Arkell Road Guelph ON N1L 1E6 ***Order ID:*** 181457	ESE/184.2	7.40	88
33	RSC		246 ARKELL ROAD, GUELPH, ONTARIO N1L 1E6 Guelph ON	ESE/184.2	7.40	88
33	RSC		246 ARKELL ROAD, GUELPH, ONTARIO N1L 1E6 Guelph ON	ESE/184.2	7.40	89
34	EHS		164 And 174 Arkell Rd Guelph ON ***Order ID:*** 219047	S/186.0	-3.72	90
35	WWIS		lot 5 con 8 ON ***Well ID:*** 6713994	N/186.2	-4.66	91
36	ECA	The Corporation of the City of Guelph	164 Arkell Rd Guelph ON N1H 3A1	S/196.8	-3.72	92
36	SPL	City of Guelph	164 Arkell Road Guelph ON	S/196.8	-3.72	92
37	EHS		1159 Victoria Road South Guelph ON N1L 1B3 ***Order ID:*** 187508	N/198.1	-3.81	92
37	EHS		1159 Victoria Road S Puslinch, Guelph ON ***Order ID:*** 190922	N/198.1	-3.81	93
37	FST	VICTORIA PARK GOLF CLUB WEST	1159 VICTORIA RD S GUELPH ON N1L 1B3	N/198.1	-3.81	93
37	FST	VICTORIA PARK GOLF CLUB WEST	1159 VICTORIA RD S GUELPH ON N1L 1B3	N/198.1	-3.81	93
37	FSTH	VICTORIA PARK GOLF CLUB WEST	1159 VICTORIA RD S GUELPH ON N1L 1B3	N/198.1	-3.81	93

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
37	FSTH	VICTORIA PARK GOLF CLUB WEST	1159 VICTORIA RD S GUELPH ON N1L 1B3	N/198.1	-3.81	94
37	GEN	VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	N/198.1	-3.81	94
37	GEN	VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	N/198.1	-3.81	94
37	GEN	VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	N/198.1	-3.81	95
37	GEN	VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	N/198.1	-3.81	95
37	GEN	VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	N/198.1	-3.81	96
37	GEN	VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS R.R. #21159 Victoria Road South GUELPH ON N1L 1B3	N/198.1	-3.81	96
37	GEN	VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS R.R. #2 1159 Victoria Road South GUELPH ON N1L 1B3	N/198.1	-3.81	96
37	PTTW	Victoria Park Village Inc.	Property of Victoria Park Village Inc. 1159 Victoria Road South, Lot: 5, Concession: 8, Geographic Township of Puslinch, City of Guelph, County of Wellington CITY OF GUELPH ON	N/198.1	-3.81	97
37	PTTW	Victoria Park Village Inc.	1159 Victoria Road South Lot 5, Concession 8 City of Guelph, County of Wellington CITY OF GUELPH ON	N/198.1	-3.81	97
37	PTTW	Victoria Park Village Inc.	Property of Victoria Park Village Inc. 1159 Victoria Road South, Lot: 5, Concession: 8, Geographic Township of Puslinch, City of Guelph, County of Wellington CITY OF GUELPH ON	N/198.1	-3.81	97

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
38	WWIS		lot 6 con 8 ON ***Well ID:*** 6704984	E/201.2	6.28	98
39	WWIS		lot 6 con 8 ON ***Well ID:*** 6704985	S/201.8	-3.72	100
40	ECA	The Corporation of the City of Guelph	Guelph ON N1H 3A1	WNW/215.2	-3.72	103
41	SPL	The Corporation of the City of Guelph	Corner of Coutts Court and Bard Blvd. Guelph ON	SE/225.1	-0.72	103
42	WWIS		lot 6 con 8 ON ***Well ID:*** 6702585	S/227.4	-3.72	104
43	WWIS		GUELPH ON ***Well ID:*** 6715740	NNW/235.6	-3.69	107
44	WWIS		lot 5 con 8 ON ***Well ID:*** 6709380	NNW/246.6	-4.33	109

Executive Summary: Summary By Data Source

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Jul 31, 2018 has found that there are 7 ECA site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
The Corporation of the City of Guelph	Part Lots 6 & 7, Conc. 8, Former Twp. of Puslinch Guelph ON N1H 3A1	16.8	5
The Corporation of the City of Guelph	Arkell Rd (from Gordon Street to Victoria Road) Guelph ON N1H 3A1	16.8	5
The Corporation of the City of Guelph	Arkell Rd (from Gordon Street to Victoria Road) Guelph ON N1H 3A1	16.8	5
The Corporation of the City of Guelph	264 Arkell Rd Part of Lot 6, Concession 8, Parts 1 and 2 of Reference Plan 61R-11714 Guelph ON N1H 3A1	183.9	32
The Corporation of the City of Guelph	246 Arkell Rd Part of Lot 6, Concession 8, Parts 1 and 2 of Reference Plan 61R-11714 Guelph ON N1H 3A1	184.2	33
The Corporation of the City of Guelph	164 Arkell Rd Guelph ON N1H 3A1	196.8	36
The Corporation of the City of Guelph	Guelph ON N1H 3A1	215.2	40

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Feb 28, 2018 has found that there are 7 EHS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	220 Arkell Road Guelph ON ***Order ID:*** 467181	0.0	1
	246 Arkell Rd Guelph ON N1L 1E6 ***Order ID:*** 238146	184.2	33
	246 Arkell Rd Guelph ON N1L 1E6 ***Order ID:*** 238147	184.2	33
	246 Arkell Road Guelph ON N1L 1E6 ***Order ID:*** 181457	184.2	33
	164 And 174 Arkell Rd Guelph ON ***Order ID:*** 219047	186.0	34
	1159 Victoria Road South Guelph ON N1L 1B3 ***Order ID:*** 187508	198.1	37
	1159 Victoria Road S Puslinch, Guelph ON ***Order ID:*** 190922	198.1	37

FST - Fuel Storage Tank

A search of the FST database, dated Feb 28, 2017 has found that there are 2 FST site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
VICTORIA PARK GOLF CLUB WEST	1159 VICTORIA RD S GUELPH ON N1L 1B3	198.1	37
VICTORIA PARK GOLF CLUB WEST	1159 VICTORIA RD S GUELPH ON N1L 1B3	198.1	37

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 2 FSTH site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
VICTORIA PARK GOLF CLUB WEST	1159 VICTORIA RD S GUELPH ON N1L 1B3	198.1	37
VICTORIA PARK GOLF CLUB WEST	1159 VICTORIA RD S GUELPH ON N1L 1B3	198.1	37

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-December 31, 2017 has found that there are 7 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	198.1	37
VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	198.1	37
VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	198.1	37
VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	198.1	37
VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	198.1	37
VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS R.R. #21159 Victoria Road South GUELPH ON N1L 1B3	198.1	37
VICTORIA PARK GOLF CLUB WEST	DIODORO INVESTMENTS R.R. #2 1159 Victoria Road South GUELPH ON N1L 1B3	198.1	37

PINC - TSSA Pipeline Incidents

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

Site	Address	Distance (m)	Map Key
	14 AMOS DR, GUELPH ON	138.8	20

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994-Jul 31, 2018 has found that there are 3 PTTW site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Victoria Park Village Inc.	1159 Victoria Road South Lot 5, Concession 8 City of Guelph, County of Wellington CITY OF GUELPH ON	198.1	37
Victoria Park Village Inc.	Property of Victoria Park Village Inc. 1159 Victoria Road South, Lot: 5, Concession: 8, Geographic Township of Puslinch, City of Guelph, County of Wellington CITY OF GUELPH ON	198.1	37
Victoria Park Village Inc.	Property of Victoria Park Village Inc. 1159 Victoria Road South, Lot: 5, Concession: 8, Geographic Township of Puslinch, City of Guelph, County of Wellington CITY OF GUELPH ON	198.1	37

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Apr 2018 has found that there are 2 RSC site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	246 ARKELL ROAD, GUELPH, ONTARIO N1L 1E6 Guelph ON	184.2	33
	246 ARKELL ROAD, GUELPH, ONTARIO N1L 1E6 Guelph ON	184.2	33

SPL - Ontario Spills

A search of the SPL database, dated 1988-May 2018 has found that there are 4 SPL site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	25 coutts court Guelph ON	62.6	11
Union Gas Limited	14 Amos Dr Guelph ON	138.8	20
City of Guelph	164 Arkell Road Guelph ON	196.8	36
The Corporation of the City of Guelph	Corner of Coutts Court and Bard Blvd. Guelph ON	225.1	41

WWIS - Water Well Information System

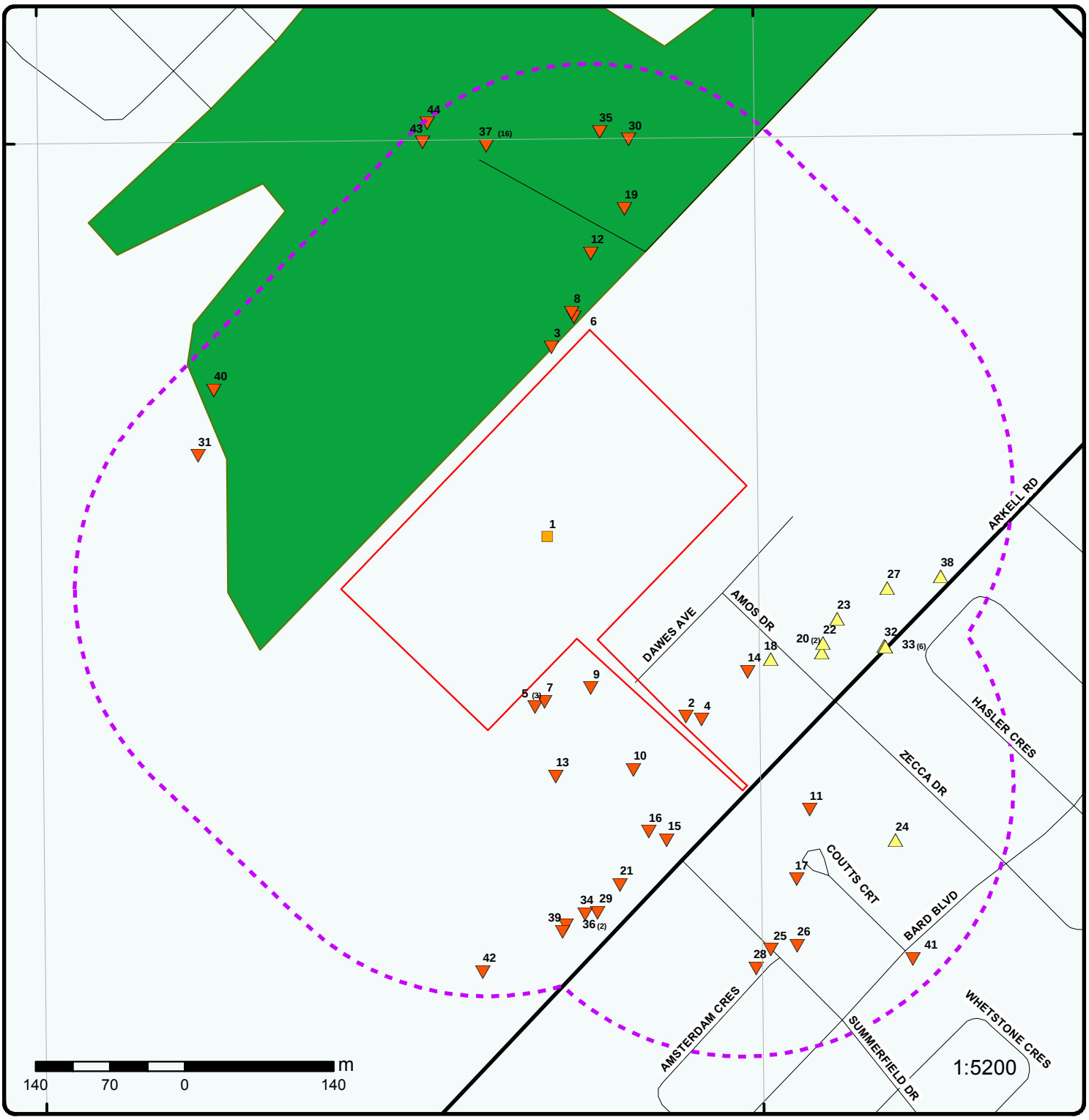
A search of the WWIS database, dated Dec 31, 2017 has found that there are 33 WWIS site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON ***Well ID:*** 7209139	7.0	2
	GUELPH ON ***Well ID:*** 7167861	14.6	3
	ON ***Well ID:*** 7229605	15.2	4
	ON ***Well ID:*** 7169407	18.8	6
	lot 6 con 8 ON	19.5	7

Site	Address	Distance (m)	Map Key
	Well ID: 6712543		
	Guelph ON ***Well ID:*** 7167862	23.0	8
	Guelph ON ***Well ID:*** 7285694	25.0	9
	Guelph ON ***Well ID:*** 7285695	54.9	10
	Guelph ON ***Well ID:*** 7167860	71.9	12
	Guelph ON ***Well ID:*** 7285692	75.9	13
	lot 6 con 8 ON ***Well ID:*** 6703602	77.6	14
	lot 6 con 8 ON ***Well ID:*** 6702590	82.6	15
	Guelph ON ***Well ID:*** 7285693	88.4	16
	lot 6 con 8 GUELPH ON ***Well ID:*** 7211048	97.9	17
	GUELPH ON ***Well ID:*** 7163099	101.3	18
	lot 5 con 8 ON ***Well ID:*** 6702582	118.5	19

Site	Address	Distance (m)	Map Key
	lot 6 con 8 ON ***Well ID:*** 6703579	143.3	21
	GUELPH ON ***Well ID:*** 7163100	145.9	22
	lot 6 con 8 GUELPH ON ***Well ID:*** 7211047	148.0	23
	GUELPH ON ***Well ID:*** 6604906	148.4	24
	lot 7 con 8 GUELPH ON ***Well ID:*** 6715351	152.2	25
	lot 7 con 8 ON ***Well ID:*** 6714128	154.6	26
	lot 6 con 8 ON ***Well ID:*** 6702589	163.5	27
	lot 7 con 8 ON ***Well ID:*** 6711291	167.4	28
	Guelph ON ***Well ID:*** 7188310	176.9	29
	lot 5 con 8 Guelph ON ***Well ID:*** 7275559	182.6	30
	Guelph ON ***Well ID:*** 7236307	183.6	31
	lot 5 con 8 ON	186.2	35

Site	Address	Distance (m)	Map Key
	Well ID: 6713994		
	lot 6 con 8 ON	201.2	38
	Well ID: 6704984		
	lot 6 con 8 ON	201.8	39
	Well ID: 6704985		
	lot 6 con 8 ON	227.4	42
	Well ID: 6702585		
	GUELPH ON	235.6	43
	Well ID: 6715740		
	lot 5 con 8 ON	246.6	44
	Well ID: 6709380		



Map : 0.25 Kilometer Radius

Order No: 20180824203

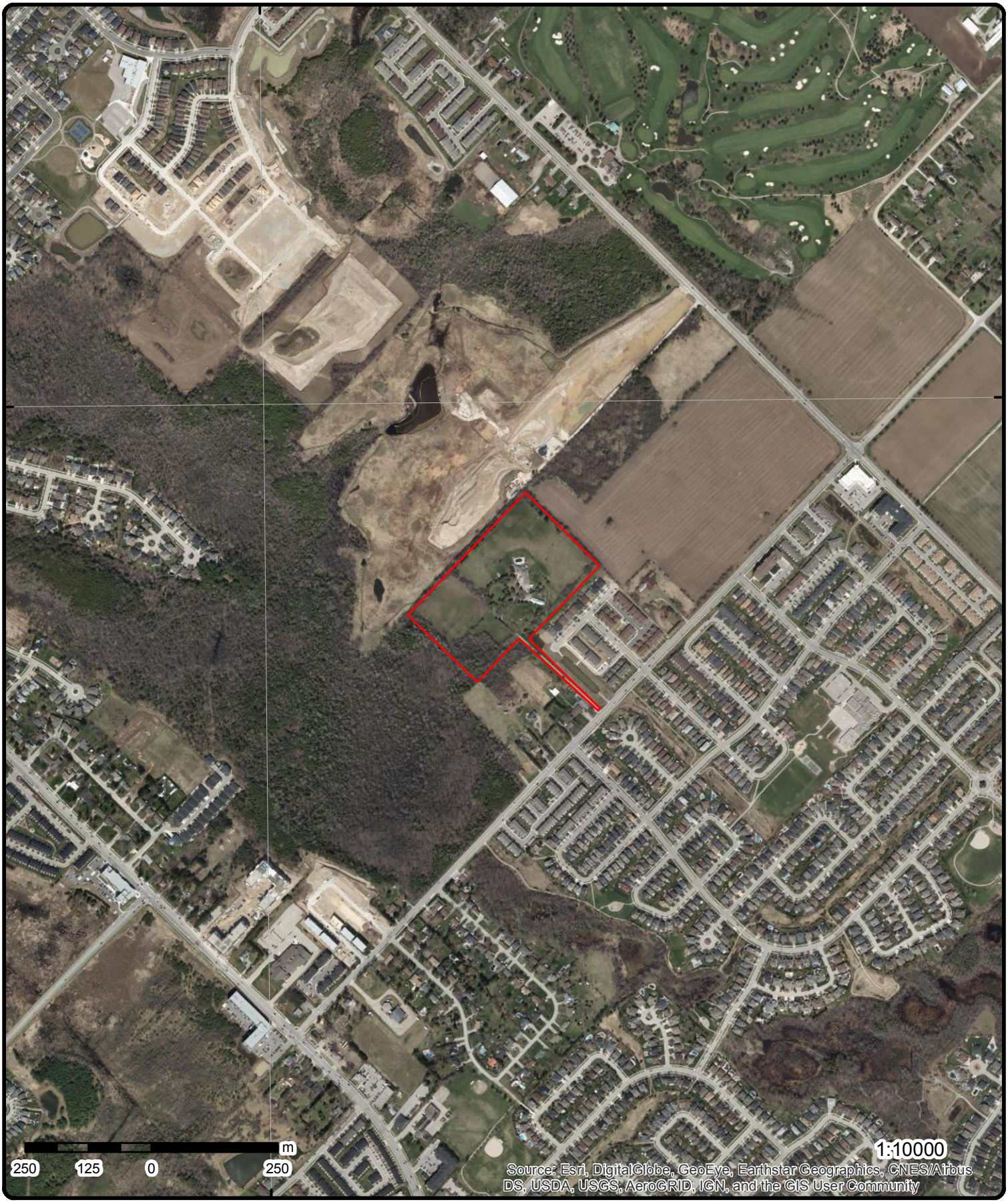
Address: 220 Arkell Road, Guelph, ON, N1L 1E6

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

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

80°12'W

43°31'30"N



43°31'30"N

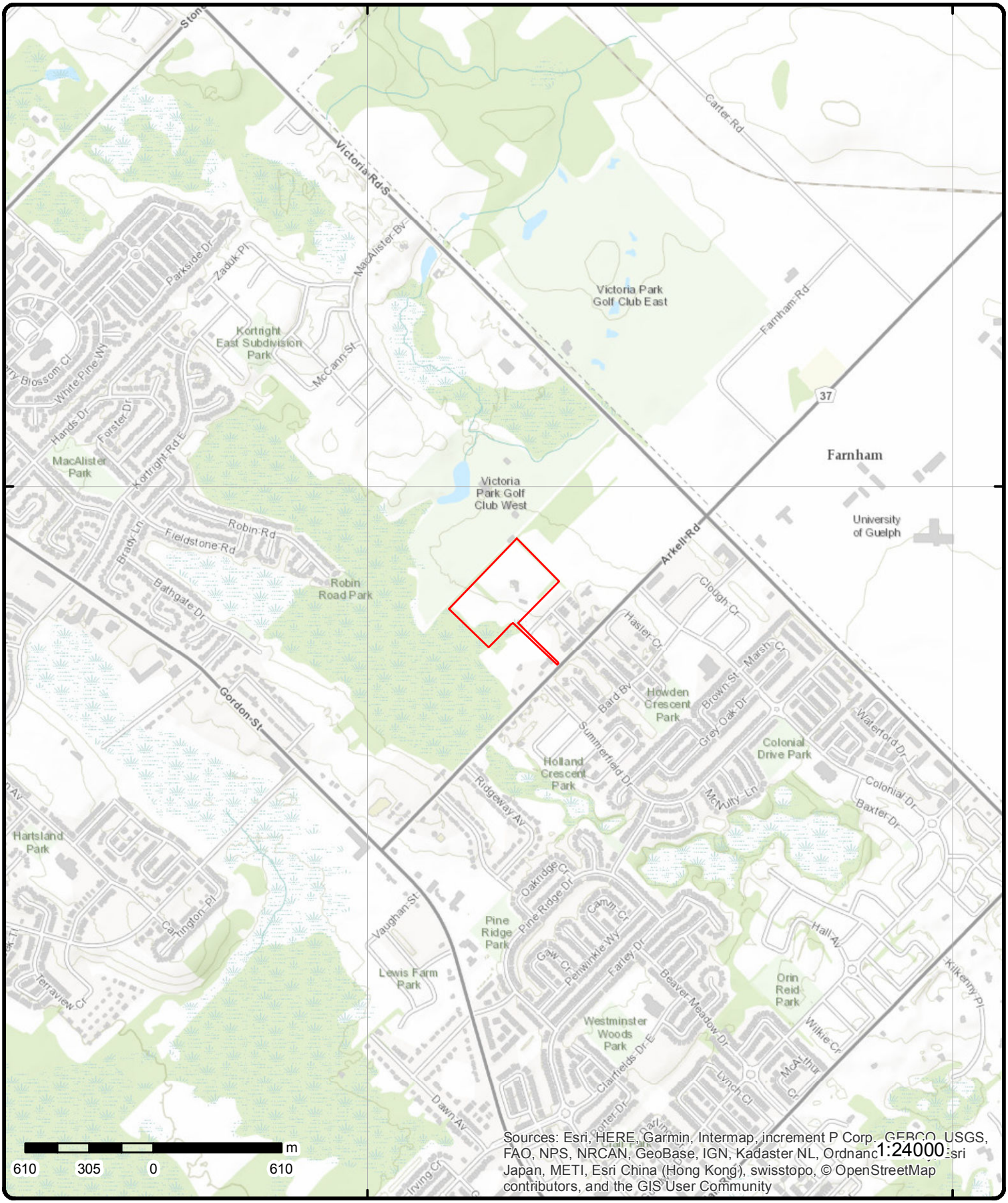
Aerial (2017)

Address: 220 Arkell Road, Guelph, ON, N1L 1E6

Source: ESRI World Imagery

Order No: 20180824203

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



Topographic Map

Address: 220 Arkell Road, Guelph, ON, N1L 1E6

Source: ESRI World Topographic Map

Order No: 20180824203

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	-/0.0	338.6 / 0.00	220 Arkell Road Guelph ON	EHS

Order ID:	467181	**Date Received:**	28-JUN-16
Order No:	20160628104	**Lot/Building Size:**	
Customer ID:	56827	**Municipality:**	
Company ID:	56	**Client Prov/State:**	ON
Status:	C	**Search Radius (km):**	.25
Report Code:	4CAN	**Large Radius:**	.3
Report Type:	Custom Report	**X:**	-80.194142
Report Date:	29-JUN-16	**Y:**	43.521645
Report Requested by:	Stantec Consulting Ltd.		
Nearest Intersection:			
Previous Site Name:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	SE/7.0	335.1 / -3.50	ON	WWIS

Well ID:	7209139	**Data Entry Status:**	Yes
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	10/3/2013
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:		**Abandonment Rec:**	
Water Type:		**Contractor:**	7282
Casing Material:		**Form Version:**	8
Audit No:	C21501	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	PUSLINCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1004596557	**Elevation:**	335.43
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	565256
Code OB Desc:		**Org CS:**	UTM83
Open Hole:		**North83:**	4818891
Cluster Kind:		**UTMRC:**	4
Date Completed:	13-JUN-13	**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:

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3 | ***1 of 1*** | ***N/14.6*** | ***337.8 / -0.77*** | ***GUELPH ON*** | ***WWIS***

Well ID:	7167861	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Monitoring	***Date Received:***	8/30/2011
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	7238
Casing Material:		***Form Version:***	7
Audit No:	Z130744	***Owner:***	
Tag:	A114019	***Street Name:***	1159 VICTORIA RD SOUTH
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	GUELPH CITY
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1003556431	***Elevation:***	338.1
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	565130
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	4819238
Cluster Kind:		***UTMRC:***	3
Date Completed:	26-JUN-11	***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:	1003962361
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Other Materials:	SAND
Mat3:	12
Other Materials:	STONES
Formation Top Depth:	3
Formation End Depth:	9.5
Formation End Depth UOM:	m

Formation ID: 1003962360
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: .3
Formation End Depth: 3
Formation End Depth UOM: m

Formation ID: 1003962359
Layer: 1
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2: 28
Other Materials: SAND
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: .3
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1003962368
Layer: 1
Plug From: 0
Plug To: .3
Plug Depth UOM: m

Plug ID: 1003962370
Layer: 3
Plug From: 1
Plug To: 4.5
Plug Depth UOM: m

Plug ID: 1003962369
Layer: 2
Plug From: .3
Plug To: 1
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1003962367
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1003962358
Casing No: 0
Comment:

Alt Name:

Construction Record - Casing

Casing ID: 1003962364
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 1.5
Casing Diameter: 5.1
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1003962365
Layer: 1
Slot: 10
Screen Top Depth: 1.5
Screen End Depth: 4.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.4

Water Details

Water ID: 1003962363
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1003962362
Diameter: 21
Depth From: 0
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

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4 **1 of 1** **SE/15.2** **336.4 / -2.22** **ON** **WWIS**

Well ID: 7229605
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: C23988
Tag: A126174
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Data Entry Status: Yes
Data Src:
Date Received: 10/16/2014
Selected Flag: Yes
Abandonment Rec:
Contractor: 6607
Form Version: 8
Owner:
Street Name:
County: WELLINGTON
Municipality: PUSLINCH TOWNSHIP
Site Info:
Lot:
Concession:
Concession Name:

Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	1005164294	***Elevation:***	335.8
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	565271
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	4818888
Cluster Kind:		***UTMRC:***	4
Date Completed:	13-AUG-14	***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:			

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5 ***1 of 3*** ***S/16.8*** ***334.4 / -4.18*** ***The Corporation of the City of Guelph***
Part Lots 6 & 7, Conc. 8, Former Twp. of Puslinch
Guelph ON N1H 3A1 ***ECA***

Approval No:	8674-5B5M74	***SWP Area Name:***	Grand River
Approval Date:	2002-06-21	***MOE District:***	Guelph
Status:	Approved	***City:***	
Record Type:	ECA	***Longitude:***	-80.1943
Link Source:	IDS	***Latitude:***	43.5202
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Address:	Part Lots 6 & 7, Conc. 8, Former Twp. of Puslinch		
Full Address:			
Full PDF Link:			

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5 ***2 of 3*** ***S/16.8*** ***334.4 / -4.18*** ***The Corporation of the City of Guelph***
Arkell Rd (from Gordon Street to Victoria Road)
Guelph ON N1H 3A1 ***ECA***

Approval No:	3084-7CAQT3	***SWP Area Name:***	Grand River
Approval Date:	2008-03-07	***MOE District:***	Guelph
Status:	Approved	***City:***	Guelph
Record Type:	ECA	***Longitude:***	-80.1943
Link Source:	IDS	***Latitude:***	43.5202
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Address:	Arkell Rd (from Gordon Street to Victoria Road)		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/9013-7BSTM2-14.pdf		

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5 ***3 of 3*** ***S/16.8*** ***334.4 / -4.18*** ***The Corporation of the City of Guelph***
Arkell Rd (from Gordon Street to Victoria Road)
Guelph ON N1H 3A1 ***ECA***

Approval No:	9839-7CDS44	***SWP Area Name:***	Grand River
Approval Date:	2008-03-07	***MOE District:***	Guelph

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

Status:	Approved	**City:**	Guelph
Record Type:	ECA	**Longitude:**	-80.1943
Link Source:	IDS	**Latitude:**	43.5202
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Address:	Arkell Rd (from Gordon Street to Victoria Road)		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/1943-7BSTND-14.pdf		

6 **1 of 1** **N/18.8** **337.2 / -1.42** **ON** **WWIS**

Well ID:	7169407	**Data Entry Status:**	Yes
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	10/4/2011
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:		**Abandonment Rec:**	
Water Type:		**Contractor:**	7282
Casing Material:		**Form Version:**	5
Audit No:	M10856	**Owner:**	
Tag:	A120781	**Street Name:**	
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	GUELPH CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1003575244	**Elevation:**	337.42
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	565151
Code OB Desc:		**Org CS:**	UTM83
Open Hole:		**North83:**	4819266
Cluster Kind:		**UTMRC:**	3
Date Completed:	28-SEP-11	**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:			

7 **1 of 1** **S/19.5** **334.4 / -4.18** **lot 6 con 8** **ON** **WWIS**

Well ID:	6712543	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	6/8/1998
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2336
Casing Material:		**Form Version:**	1
Audit No:	187626	**Owner:**	

Tag:		***Street Name:***	
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	PUSLINCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	006
Well Depth:		***Concession:***	08
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10476376	***Elevation:***	334.66
DP2BR:	39	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	565123.3
Code OB Desc:	Bedrock	***Org CS:***	
Open Hole:		***North83:***	4818905
Cluster Kind:		***UTMRC:***	9
Date Completed:	21-MAY-98	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932657688
Layer:	4
Color:	2
General Color:	GREY
Mat1:	26
Most Common Material:	ROCK
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	55
Formation End Depth:	80
Formation End Depth UOM:	ft

Formation ID:	932657686
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	30
Formation End Depth:	39
Formation End Depth UOM:	ft

Formation ID:	932657685
Layer:	1

Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Other Materials:	STONES
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	30
Formation End Depth UOM:	ft

Formation ID:	932657687
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	26
Most Common Material:	ROCK
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	39
Formation End Depth:	55
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933210822
Layer:	1
Plug From:	0
Plug To:	25
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966712543
Method Construction Code:	4
Method Construction:	Rotary (Air)
Other Method Construction:	

Pipe Information

Pipe ID:	11024946
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930776088
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	42
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Casing ID:	930776089
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	80
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996712543
Pump Set At:	
Static Level:	10
Final Level After Pumping:	50
Recommended Pump Depth:	70
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:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934617298
Test Type:	Draw Down
Test Duration:	30
Test Level:	46
Test Level UOM:	ft

Pump Test Detail ID:	934869129
Test Type:	Draw Down
Test Duration:	45
Test Level:	50
Test Level UOM:	ft

Pump Test Detail ID:	934352296
Test Type:	Draw Down
Test Duration:	15
Test Level:	32
Test Level UOM:	ft

Pump Test Detail ID:	935138943
Test Type:	Draw Down
Test Duration:	60
Test Level:	50
Test Level UOM:	ft

Water Details

Water ID:	933966957
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	75
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	1 of 1	N/23.0	337.2 / -1.42	Guelph ON	WWIS

Well ID:	7167862	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	8/30/2011
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7238
Casing Material:		**Form Version:**	7
Audit No:	Z130743	**Owner:**	
Tag:	A114001	**Street Name:**	1159 VICTORIA RD S
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	GUELPH CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1003556433	**Elevation:**	337.34
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	565149
Code OB Desc:		**Org CS:**	UTM83
Open Hole:		**North83:**	4819270
Cluster Kind:		**UTMRC:**	3
Date Completed:	26-JUN-11	**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:	1003962382
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	12
Other Materials:	STONES
Mat3:	
Other Materials:	
Formation Top Depth:	.3
Formation End Depth:	3
Formation End Depth UOM:	m

Formation ID:	1003962381
Layer:	1
Color:	6

General Color:	BROWN
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	28
Other Materials:	SAND
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	.3
Formation End Depth UOM:	m
Formation ID:	1003962383
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Other Materials:	SAND
Mat3:	12
Other Materials:	STONES
Formation Top Depth:	3
Formation End Depth:	4.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003962391
Layer:	2
Plug From:	.3
Plug To:	1
Plug Depth UOM:	m
Plug ID:	1003962390
Layer:	1
Plug From:	0
Plug To:	.3
Plug Depth UOM:	m
Plug ID:	1003962392
Layer:	3
Plug From:	1
Plug To:	4.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1003962389
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	

Pipe Information

Pipe ID:	1003962380
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1003962386
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	1.5
Casing Diameter:	5.1
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1003962387
Layer:	1
Slot:	10
Screen Top Depth:	1.5
Screen End Depth:	4.5
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.4

Water Details

Water ID:	1003962385
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1003962384
Diameter:	2.1
Depth From:	0
Depth To:	4.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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9 ***1 of 1*** ***SSE/25.0*** ***334.9 / -3.72*** ***Guelph ON*** ***WWIS***

Well ID:	7285694	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Test Hole	***Date Received:***	4/27/2017
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Monitoring and Test Hole	***Abandonment Rec:***	
Water Type:		***Contractor:***	7320
Casing Material:		***Form Version:***	7
Audit No:	Z256381	***Owner:***	
Tag:	A219997	***Street Name:***	190 ARKELL RD
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	PUSLINCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	

Flow Rate: ***UTM Reliability:***
Clear/Cloudy:

Bore Hole Information

Bore Hole ID:	1006384734	***Elevation:***	334.76
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	565167
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	4818918
Cluster Kind:		***UTMRC:***	4
Date Completed:	21-MAR-17	***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:	1006690279
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	4.6
Formation End Depth UOM:	m

Formation ID:	1006690280
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	91
Other Materials:	WATER-BEARING
Formation Top Depth:	4.6
Formation End Depth:	7.6
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006690289
Layer:	3
Plug From:	5.7
Plug To:	7.6
Plug Depth UOM:	m

Plug ID:	1006690288
Layer:	2

Plug From: .15
Plug To: 5.7
Plug Depth UOM: m

Plug ID: 1006690287
Layer: 1
Plug From: 0
Plug To: .15
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006690286
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction: HSA

Pipe Information

Pipe ID: 1006690278
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006690283
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -.7
Depth To: 6.1
Casing Diameter: 5.1
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006690284
Layer: 1
Slot: .01
Screen Top Depth: 6.1
Screen End Depth: 7.6
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.1

Water Details

Water ID: 1006690282
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006690281

Diameter:	21
Depth From:	0
Depth To:	7.6
Hole Depth UOM:	m
Hole Diameter UOM:	cm

10 **1 of 1** **SSE/54.9** **334.9 / -3.72** **Guelph ON** **WWIS**

Well ID:	7285695	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Test Hole	**Date Received:**	4/27/2017
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Monitoring and Test Hole	**Abandonment Rec:**	
Water Type:		**Contractor:**	7320
Casing Material:		**Form Version:**	7
Audit No:	Z256382	**Owner:**	
Tag:	A219998	**Street Name:**	190 ARKELL RD
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	PUSLINCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006384737	**Elevation:**	335.04
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	565207
Code OB Desc:		**Org CS:**	UTM83
Open Hole:		**North83:**	4818841
Cluster Kind:		**UTMRC:**	4
Date Completed:	21-MAR-17	**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:	1006690368
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	91
Other Materials:	WATER-BEARING
Formation Top Depth:	4.6
Formation End Depth:	7.6

Formation End Depth UOM: m

Formation ID: 1006690367
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 4.6
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1006690375
Layer: 1
Plug From: 0
Plug To: .15
Plug Depth UOM: m

Plug ID: 1006690376
Layer: 2
Plug From: .15
Plug To: 5.7
Plug Depth UOM: m

Plug ID: 1006690377
Layer: 3
Plug From: 5.7
Plug To: 7.6
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006690374
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction: HSA

Pipe Information

Pipe ID: 1006690366
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006690371
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -.7
Depth To: 6.1
Casing Diameter: 5.1
Casing Diameter UOM: cm

Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006690372
Layer: 1
Slot: .01
Screen Top Depth: 6.1
Screen End Depth: 7.6
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.1

Water Details

Water ID: 1006690370
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006690369
Diameter: 21
Depth From: 0
Depth To: 7.6
Hole Depth UOM: m
Hole Diameter UOM: cm

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11 ***1 of 1*** ***SE/62.6*** ***337.9 / -0.72*** ***25 coutts court Guelph ON*** ***SPL***

Ref No: 0860-9UCQJF
Site No: NA
Incident Dt: 3/3/2015
Year:
Incident Cause: Leak/Break
Incident Event:
Contaminant Code: 15
Contaminant Name: HYDRAULIC OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Contaminant Qty: 0 other - see incident description
Environment Impact:
Nature of Impact: Land
Receiving Medium:
Receiving Env:
Health/Env Conseq:
MOE Response: N
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/6/2015
Dt Document Closed: 3/12/2015
Agency Involved:
SAC Action Class: Land Spills
Incident Reason: Operator/Human Error
Incident Summary: Coutts Court; Possible Hydraulic oil into snow on Cul de sac

Discharger Report:
Material Group:
Client Type:
Sector Type:
Source Type:
Nearest Watercourse:
Site Name: residential<UNOFFICIAL>
Site Address: 25 coutts court
Site District Office:
Site County/District:
Site Postal Code:
Site Region:
Site Municipality: Guelph
Site Lot:
Site Conc:
Northing: 4818765
Easting: 565373
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	1 of 1	N/71.9	335.8 / -2.79	Guelph ON	WWIS

Well ID: 7167860
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z130713
Tag: A114018
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 8/30/2011
Selected Flag: Yes
Abandonment Rec:
Contractor: 7238
Form Version: 7
Owner:
Street Name: 1159 VICTORIA RD S
County: WELLINGTON
Municipality: GUELPH CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1003556429
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 26-JUN-11
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 336.15
Elevrc:
Zone: 17
East83: 565167
Org CS: UTM83
North83: 4819326
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1003962321
Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: .3
Formation End Depth UOM: m

Formation ID: 1003962322
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28

Most Common Material:	SAND
Mat2:	12
Other Materials:	STONES
Mat3:	
Other Materials:	
Formation Top Depth:	.3
Formation End Depth:	3
Formation End Depth UOM:	m

Formation ID:	1003962323
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Other Materials:	SAND
Mat3:	12
Other Materials:	STONES
Formation Top Depth:	3
Formation End Depth:	4.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003962331
Layer:	2
Plug From:	.3
Plug To:	1
Plug Depth UOM:	m

Plug ID:	1003962332
Layer:	3
Plug From:	1
Plug To:	4.5
Plug Depth UOM:	m

Plug ID:	1003962330
Layer:	1
Plug From:	0
Plug To:	.3
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1003962329
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	

Pipe Information

Pipe ID:	1003962320
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1003962326

Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	1.5
Casing Diameter:	5.1
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1003962327
Layer:	1
Slot:	10
Screen Top Depth:	1.5
Screen End Depth:	4.5
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.4

Water Details

Water ID:	1003962325
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1003962324
Diameter:	21
Depth From:	0
Depth To:	4.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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13 **1 of 1** **S/75.9** **334.9 / -3.72** **Guelph ON** **WWIS**

Well ID:	7285692	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Test Hole	**Date Received:**	4/27/2017
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Test Hole	**Abandonment Rec:**	
Water Type:		**Contractor:**	7320
Casing Material:		**Form Version:**	7
Audit No:	Z250516	**Owner:**	
Tag:	A220009	**Street Name:**	190 ARKELL ST
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	PUSLINCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006384728	***Elevation:***	334.82
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	565134
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	4818835
Cluster Kind:		***UTMRC:***	4
Date Completed:	14-FEB-17	***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:	1006690151
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	2.1
Formation End Depth:	7.6
Formation End Depth UOM:	m

Formation ID:	1006690150
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Other Materials:	SILT
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	0
Formation End Depth:	2.1
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006690158
Layer:	1
Plug From:	0
Plug To:	.3
Plug Depth UOM:	m

Plug ID:	1006690159
Layer:	2
Plug From:	.3
Plug To:	5.7

Plug Depth UOM: m

Plug ID: 1006690160
Layer: 3
Plug From: 5.7
Plug To: 7.6
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1006690157
Method Construction Code: 6
Method Construction: Boring
Other Method Construction: HSA

Pipe Information

Pipe ID: 1006690149
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006690154
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -.7
Depth To: 6.1
Casing Diameter: 5.1
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006690155
Layer: 1
Slot: 10
Screen Top Depth: 6.1
Screen End Depth: 7.6
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.1

Water Details

Water ID: 1006690153
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 2.1
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006690152
Diameter: 21
Depth From: 0

Depth To:	7.6
Hole Depth UOM:	m
Hole Diameter UOM:	cm

14 **1 of 1** **SE/77.6** **338.2 / -0.42** **lot 6 con 8 ON** **WWIS**

Well ID:	6703602	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	2/10/1970
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2414
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	PUSLINCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	006
Well Depth:		**Concession:**	08
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10467737	**Elevation:**	337.8
DP2BR:	83	**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	r	**East83:**	565314.3
Code OB Desc:	Bedrock	**Org CS:**	
Open Hole:		**North83:**	4818933
Cluster Kind:		**UTMRC:**	4
Date Completed:	08-JAN-70	**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:	932618626
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	83
Formation End Depth:	124
Formation End Depth UOM:	ft

Formation ID: 932618625
Layer: 2
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3: 11
Other Materials: GRAVEL
Formation Top Depth: 6
Formation End Depth: 83
Formation End Depth UOM: ft

Formation ID: 932618624
Layer: 1
Color:
General Color:
Mat1: 01
Most Common Material: FILL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 6
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966703602
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11016307
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930760943
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 86
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930760944
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 124
Casing Diameter:
Casing Diameter UOM: inch

Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID:	996703602
Pump Set At:	
Static Level:	23
Final Level After Pumping:	70
Recommended Pump Depth:	80
Pumping Rate:	8
Flowing Rate:	
Recommended Pump Rate:	8
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Water Details

Water ID:	933956094
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	120
Water Found Depth UOM:	ft

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15 ***1 of 1*** ***SSE/82.6*** ***334.8 / -3.81*** ***lot 6 con 8 ON*** ***WWIS***

Well ID:	6702590	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	11/9/1962
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2414
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	GUELPH CITY (PUSLINCH TWP)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	006
Well Depth:		***Concession:***	08
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10466733	***Elevation:***	335.98
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	o	***East83:***	565238.3
Code OB Desc:	Overburden	***Org CS:***	
Open Hole:		***North83:***	4818775

Cluster Kind:
Date Completed: 24-OCT-62
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Overburden and Bedrock Materials Interval

Formation ID: 932614469
Layer: 1
Color:
General Color:
Mat1: 23
Most Common Material: PREVIOUSLY DUG
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 9
Formation End Depth UOM: ft

Formation ID: 932614471
Layer: 3
Color: 2
General Color: GREY
Mat1: 14
Most Common Material: HARDPAN
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 34
Formation End Depth: 45
Formation End Depth UOM: ft

Formation ID: 932614470
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 9
Formation End Depth: 34
Formation End Depth UOM: ft

Formation ID: 932614473
Layer: 5
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Other Materials:
Mat3:
Other Materials:

Formation Top Depth:	58
Formation End Depth:	65
Formation End Depth UOM:	ft
Formation ID:	932614472
Layer:	4
Color:	
General Color:	
Mat1:	08
Most Common Material:	FINE SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	45
Formation End Depth:	58
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966702590
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11015303
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930759062
Layer:	2
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	60
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
Casing ID:	930759061
Layer:	1
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	5
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996702590
Pump Set At:	
Static Level:	16
Final Level After Pumping:	20
Recommended Pump Depth:	30

Pumping Rate:	10
Flowing Rate:	
Recommended Pump Rate:	8
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	N

Water Details

Water ID:	933954930
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	65
Water Found Depth UOM:	ft

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16 ***1 of 1*** ***SSE/88.4*** ***334.8 / -3.81*** ***Guelph ON*** ***WWIS***

Well ID:	7285693	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:	Test Hole	***Date Received:***	4/27/2017
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Test Hole	***Abandonment Rec:***	
Water Type:		***Contractor:***	7320
Casing Material:		***Form Version:***	7
Audit No:	Z250515	***Owner:***	
Tag:	A220008	***Street Name:***	190 ARKELL ST
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	PUSLINCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006384731	***Elevation:***	335.68
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	565221
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	4818783
Cluster Kind:		***UTMRC:***	4
Date Completed:	14-FEB-17	***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:	1006690235
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	77
Other Materials:	LOOSE
Formation Top Depth:	0
Formation End Depth:	3.1
Formation End Depth UOM:	m

Formation ID:	1006690236
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	3.1
Formation End Depth:	7.6
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006690245
Layer:	3
Plug From:	5.7
Plug To:	7.6
Plug Depth UOM:	m

Plug ID:	1006690244
Layer:	2
Plug From:	.3
Plug To:	5.7
Plug Depth UOM:	m

Plug ID:	1006690243
Layer:	1
Plug From:	0
Plug To:	.3
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1006690242
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	HSA

Pipe Information

Pipe ID: 1006690234
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006690239
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -.7
Depth To: 6.1
Casing Diameter: 5.1
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006690240
Layer: 1
Slot: 10
Screen Top Depth: 6.1
Screen End Depth: 7.6
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.1

Water Details

Water ID: 1006690238
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 3.1
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006690237
Diameter: 21
Depth From: 0
Depth To: 7.6
Hole Depth UOM: m
Hole Diameter UOM: cm

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17 ***1 of 1*** ***SE/97.9*** ***337.9 / -0.72*** ***lot 6 con 8 GUELPH ON*** ***WWIS***

Well ID: 7211048
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: 0
Water Type:
Casing Material:
Audit No: Z172130
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:

Data Entry Status:
Data Src:
Date Received: 11/8/2013
Selected Flag: Yes
Abandonment Rec: Yes
Contractor: 2663
Form Version: 7
Owner:
Street Name: 246 ARKELL RD
County: WELLINGTON
Municipality: PUSLINCH TOWNSHIP
Site Info:

Depth to Bedrock:		***Lot:***	006
Well Depth:		***Concession:***	08
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1004630819	***Elevation:***	337.67
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	565360
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	4818738
Cluster Kind:		***UTMRC:***	4
Date Completed:	23-AUG-13	***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:			

Annular Space/Abandonment Sealing Record

Plug ID:	1004889960
Layer:	1
Plug From:	0
Plug To:	6
Plug Depth UOM:	ft

Plug ID:	1004889961
Layer:	2
Plug From:	-6
Plug To:	
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1004889959
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1004889953
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004889957
Layer:	
Material:	

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

Construction Record - Screen

Screen ID: 1004889958
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Water Details

Water ID: 1004889956
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1004889955
Diameter:
Depth From:
Depth To:
Hole Depth UOM: ft
Hole Diameter UOM: inch

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18 ***1 of 1*** ***ESE/101.3*** ***339.9 / 1.28*** ***GUELPH ON*** ***WWIS***

Well ID: 7163099
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z129152
Tag: A109401
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: 5/13/2011
Selected Flag: Yes
Abandonment Rec:
Contractor: 7238
Form Version: 7
Owner:
Street Name: 246 ARKELL RD
County: WELLINGTON
Municipality: GUELPH CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID:	1003509262	***Elevation:***	338.91
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	565336
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	4818945
Cluster Kind:		***UTMRC:***	3
Date Completed:	25-APR-11	***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:	1003821494
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	13
Most Common Material:	BOULDERS
Mat2:	11
Other Materials:	GRAVEL
Mat3:	73
Other Materials:	HARD
Formation Top Depth:	0
Formation End Depth:	3.05
Formation End Depth UOM:	m

Formation ID:	1003821495
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Other Materials:	GRAVEL
Mat3:	73
Other Materials:	HARD
Formation Top Depth:	3.05
Formation End Depth:	6.1
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003821502
Layer:	1
Plug From:	0
Plug To:	2.44
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1003821500
Method Construction Code:	E
Method Construction:	Auger

Other Method Construction:

Pipe Information

Pipe ID: 1003821493
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1003821498
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 3.05
Casing Diameter: 5.1
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1003821499
Layer: 1
Slot: 10
Screen Top Depth: 3.05
Screen End Depth: 6.1
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.4

Water Details

Water ID: 1003821497
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1003821496
Diameter: 21
Depth From: 0
Depth To: 6.1
Hole Depth UOM: m
Hole Diameter UOM: cm

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19 | ***1 of 1*** | ***NNE/118.5*** | ***334.8 / -3.77*** | ***lot 5 con 8 ON*** | ***WWIS***

Well ID: 6702582
Construction Date:
Primary Water Use: Livestock
Sec. Water Use: Domestic
Final Well Status: Water Supply
Water Type:
Casing Material:

Data Entry Status:
Data Src: 1
Date Received: 10/21/1966
Selected Flag: Yes
Abandonment Rec:
Contractor: 2414
Form Version: 1

Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	PUSLINCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	005
Well Depth:		***Concession:***	08
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10466725	***Elevation:***	335.15
DP2BR:	57	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	565198.3
Code OB Desc:	Bedrock	***Org CS:***	
Open Hole:		***North83:***	4819368
Cluster Kind:		***UTMRC:***	5
Date Completed:	07-OCT-66	***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:	932614431
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	36
Formation End Depth:	57
Formation End Depth UOM:	ft

Formation ID:	932614434
Layer:	5
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	135
Formation End Depth:	150
Formation End Depth UOM:	ft

Formation ID:	932614433

Layer: 4
Color: 8
General Color: BLACK
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 98
Formation End Depth: 135
Formation End Depth UOM: ft

Formation ID: 932614430
Layer: 1
Color:
General Color:
Mat1: 23
Most Common Material: PREVIOUSLY DUG
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 36
Formation End Depth UOM: ft

Formation ID: 932614432
Layer: 3
Color: 6
General Color: BROWN
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 57
Formation End Depth: 98
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966702582
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11015295
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930759046
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:

Depth To:	65
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
Casing ID:	930759045
Layer:	1
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	6
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
Casing ID:	930759047
Layer:	3
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	150
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996702582
Pump Set At:	
Static Level:	32
Final Level After Pumping:	70
Recommended Pump Depth:	50
Pumping Rate:	15
Flowing Rate:	
Recommended Pump Rate:	15
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:	30
Flowing:	N

Water Details

Water ID:	933954922
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	145
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	1 of 2	ESE/138.8	342.6 / 3.99	14 AMOS DR, GUELPH ON	PINC

Incident ID:		**Health Impact:**	
Incident No:	1602706	**Environment Impact:**	
Type:	FS-Pipeline Incident	**Property Damage:**	No
Status Code:	Pipeline Damage Reason Est	**Service Interupt:**	
Fuel Occurrence Tp:		**Enforce Policy:**	Yes
Fuel Type:		**Public Relation:**	
Tank Status:	RC Established	**Pipeline System:**	

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

Task No:	5415812	**Depth:**	
Spills Action Centre:		**Pipe Material:**	
Method Details:	E-mail	**PSIG:**	
Fuel Category:	Natural Gas	**Attribute Category:**	FS-Perform P-line Inc Invest
Date of Occurrence:		**Regualtor Location:**	
Occurrence Start Date:	2015/03/25		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:	14 AMOS DR, GUELPH - PIPELINE HIT - 1/2"		
Reported By:	Jeremy Miller - UNION GAS		
Affiliation:			
Occurrence Desc:			
Damage Reason:	Excavation practices not sufficient		
Notes:			

20	2 of 2	ESE/138.8	342.6 / 3.99	Union Gas Limited 14 Amos Dr Guelph ON	SPL

Ref No:	2642-9UVPW3	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	3/23/2015	**Client Type:**	
Year:		**Sector Type:**	
Incident Cause:	Leak/Break	**Source Type:**	
Incident Event:		**Nearest Watercourse:**	
Contaminant Code:	35	**Site Name:**	Residential<UNOFFICIAL>
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	14 Amos Dr
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site County/District:**	
Contaminant UN No 1:		**Site Postal Code:**	
Contaminant Qty:	0 other - see incident description	**Site Region:**	
Environment Impact:		**Site Municipality:**	Guelph
Nature of Impact:	Air	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
Health/Env Conseq:		**Easting:**	
MOE Response:	N	**Site Geo Ref Accu:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Meth:**	
MOE Reported Dt:	3/23/2015	**Site Map Datum:**	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill		
Incident Reason:	Operator/Human Error		
Incident Summary:	TSSA: Line Stike- 14 Amos Dr, Still on going- Should be done by 14:00		

21	1 of 1	SSE/143.3	334.8 / -3.75	lot 6 con 8 ON	WWIS

Well ID:	6703579	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Domestic	**Date Received:**	10/22/1969
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2414
Casing Material:		**Form Version:**	1
Audit No:		**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	PUSLINCH TOWNSHIP
Elevation Reliability:		**Site Info:**	

Depth to Bedrock:		***Lot:***	006
Well Depth:		***Concession:***	08
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10467714	***Elevation:***	335.74
DP2BR:	70	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	565194.3
Code OB Desc:	Bedrock	***Org CS:***	
Open Hole:		***North83:***	4818733
Cluster Kind:		***UTMRC:***	4
Date Completed:	27-SEP-69	***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:	932618536
Layer:	6
Color:	6
General Color:	BROWN
Mat1:	26
Most Common Material:	ROCK
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	70
Formation End Depth:	93
Formation End Depth UOM:	ft

Formation ID:	932618535
Layer:	5
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	55
Formation End Depth:	70
Formation End Depth UOM:	ft

Formation ID:	932618531
Layer:	1
Color:	
General Color:	
Mat1:	23
Most Common Material:	PREVIOUSLY DUG

Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 9
Formation End Depth UOM: ft

Formation ID: 932618533
Layer: 3
Color: 6
General Color: BROWN
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 15
Formation End Depth: 25
Formation End Depth UOM: ft

Formation ID: 932618532
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 9
Formation End Depth: 15
Formation End Depth UOM: ft

Formation ID: 932618534
Layer: 4
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 09
Other Materials: MEDIUM SAND
Mat3: 11
Other Materials: GRAVEL
Formation Top Depth: 25
Formation End Depth: 55
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966703579
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11016284
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930760898
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	72
Casing Diameter:	4
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Casing ID:	930760899
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	93
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996703579
Pump Set At:	
Static Level:	6
Final Level After Pumping:	15
Recommended Pump Depth:	30
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:	2
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934604748
Test Type:	Recovery
Test Duration:	30
Test Level:	6
Test Level UOM:	ft

Pump Test Detail ID:	934345758
Test Type:	Recovery
Test Duration:	15
Test Level:	6
Test Level UOM:	ft

Pump Test Detail ID:	934858518
Test Type:	Recovery
Test Duration:	45
Test Level:	6
Test Level UOM:	ft

Pump Test Detail ID:	935123311

Test Type: Recovery
Test Duration: 60
Test Level: 6
Test Level UOM: ft

Water Details

Water ID: 933956070
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 93
Water Found Depth UOM: ft

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22 **1 of 1** **ESE/145.9** **342.6 / 3.99** **GUELPH ON** **WWIS**

Well ID: 7163100
Construction Date:
Primary Water Use: Test Hole
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z123619
Tag: A109402
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: 5/13/2011
Selected Flag: Yes
Abandonment Rec:
Contractor: 7238
Form Version: 7
Owner:
Street Name: 246 ARKELL RD
County: WELLINGTON
Municipality: GUELPH CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1003509264
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 25-APR-11
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 342.11
Elevrc:
Zone: 17
East83: 565385
Org CS: UTM83
North83: 4818960
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1003821505
Layer: 2
Color: 6

General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	11
Other Materials:	GRAVEL
Mat3:	73
Other Materials:	HARD
Formation Top Depth:	2.44
Formation End Depth:	5.18
Formation End Depth UOM:	m

Formation ID:	1003821504
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	13
Most Common Material:	BOULDERS
Mat2:	11
Other Materials:	GRAVEL
Mat3:	73
Other Materials:	HARD
Formation Top Depth:	0
Formation End Depth:	2.44
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1003821513
Layer:	1
Plug From:	0
Plug To:	1.22
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1003821511
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	

Pipe Information

Pipe ID:	1003821503
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1003821508
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	1.52
Casing Diameter:	5.1
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID: 1003821509
Layer: 1
Slot:
Screen Top Depth: 1.52
Screen End Depth: 4.57
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.4

Water Details

Water ID: 1003821507
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1003821506
Diameter: 21
Depth From: 0
Depth To: 5.18
Hole Depth UOM: m
Hole Diameter UOM: cm

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23 | **1 of 1** | **ESE/148.0** | **345.3 / 6.70** | **lot 6 con 8 GUELPH ON** | **WWIS**

Well ID: 7211047
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: 0
Water Type:
Casing Material:
Audit No: Z172129
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 11/8/2013
Selected Flag: Yes
Abandonment Rec: Yes
Contractor: 2663
Form Version: 7
Owner:
Street Name: 246 ARKELL RD
County: WELLINGTON
Municipality: PUSLINCH TOWNSHIP
Site Info:
Lot: 006
Concession: 08
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1004630816
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:

Elevation: 344.08
Elevrc:
Zone: 17
East83: 565398
Org CS: UTM83
North83: 4818983
UTMRC: 5

Date Completed: 23-AUG-13
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: gis

Annular Space/Abandonment Sealing Record

Plug ID: 1004889951
Layer: 1
Plug From: 0
Plug To: 6
Plug Depth UOM: m

Plug ID: 1004889952
Layer: 2
Plug From: -6
Plug To: 12
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004889950
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1004889944
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004889948
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004889949
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Water Details

Water ID:	1004889947
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004889946
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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24 ***1 of 1*** ***SE/148.4*** ***338.8 / 0.24*** ***GUELPH ON*** ***WWIS***

Well ID:	6604906	***Data Entry Status:***	
Construction Date:		***Data Src:***	
Primary Water Use:		***Date Received:***	10/24/2005
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Observation Wells	***Abandonment Rec:***	
Water Type:		***Contractor:***	6607
Casing Material:		***Form Version:***	3
Audit No:	Z38209	***Owner:***	
Tag:	A034610	***Street Name:***	VICTORIA GARDENS PHASE 2, N & S OF BARD BLVD
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	GUELPH CITY
Elevation Reliability:		***Site Info:***	BLOCK 108 & 107 PLAN 61M-108
Depth to Bedrock:		***Lot:***	
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	11326989	***Elevation:***	338.5
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	o	***East83:***	565453
Code OB Desc:	Overburden	***Org CS:***	UTM83
Open Hole:		***North83:***	4818775
Cluster Kind:		***UTMRC:***	4
Date Completed:	12-OCT-05	***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:	933034562
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	65
Other Materials:	DARK-COLOURED
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	.15
Formation End Depth UOM:	m

Formation ID:	933034564
Layer:	3
Color:	
General Color:	
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	.7
Formation End Depth:	5.9
Formation End Depth UOM:	m

Formation ID:	933034563
Layer:	2
Color:	
General Color:	
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Other Materials:	SAND
Mat3:	
Other Materials:	
Formation Top Depth:	.15
Formation End Depth:	.7
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933279474
Layer:	1
Plug From:	0
Plug To:	.7
Plug Depth UOM:	m

Plug ID:	933279475
Layer:	2
Plug From:	.7
Plug To:	4
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	966604906

Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 11341844
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930871697
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -.76
Depth To: 4.4
Casing Diameter: 5.1
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933415192
Layer: 1
Slot: 10
Screen Top Depth: 4.4
Screen End Depth: 5.9
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.4

Water Details

Water ID: 934066558
Layer: 1
Kind Code:
Kind:
Water Found Depth: 4
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11547831
Diameter: 21
Depth From: 0
Depth To: 5.9
Hole Depth UOM: m
Hole Diameter UOM: cm

25	1 of 1	SSE/152.2	337.6 / -1.03	lot 7 con 8 GUELPH ON	WWIS

Well ID: 6715351
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Abandoned-Other

Data Entry Status:
Data Src:
Date Received: 6/14/2005
Selected Flag: Yes
Abandonment Rec: Yes

Water Type:		**Contractor:**	2663
Casing Material:		**Form Version:**	3
Audit No:	Z28958	**Owner:**	
Tag:		**Street Name:**	171 ARKEL ROAD
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	GUELPH CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	007
Well Depth:		**Concession:**	08
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	11327137	**Elevation:**	336.59
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	_	**East83:**	565336
Code OB Desc:	No formation data	**Org CS:**	UTM83
Open Hole:		**North83:**	4818672
Cluster Kind:		**UTMRC:**	4
Date Completed:	01-JUN-05	**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:			

Annular Space/Abandonment Sealing Record

Plug ID:	933270548
Layer:	1
Plug From:	-6
Plug To:	75
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	966715351
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	11341992
Casing No:	1
Comment:	
Alt Name:	

26	1 of 1	SSE/154.6	337.9 / -0.72	lot 7 con 8 ON	WWIS

Well ID:	6714128	**Data Entry Status:**	

Construction Date:		**Data Src:**	1
Primary Water Use:	Not Used	**Date Received:**	7/3/2002
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	
Water Type:		**Contractor:**	2663
Casing Material:		**Form Version:**	1
Audit No:	235169	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	PUSLINCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	007
Well Depth:		**Concession:**	08
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10536336	**Elevation:**	336.82
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	_	**East83:**	565360.6
Code OB Desc:	No formation data	**Org CS:**	
Open Hole:		**North83:**	4818676
Cluster Kind:		**UTMRC:**	5
Date Completed:	26-JUN-02	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	966714128
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	

Pipe Information

Pipe ID:	11084906
Casing No:	1
Comment:	
Alt Name:	

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27 **1 of 1** **E/163.5** **345.6 / 6.97** **lot 6 con 8 ON** **WWIS**

Well ID:	6702589	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:	Livestock	**Date Received:**	11/16/1965
Sec. Water Use:	Domestic	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2414

Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	GUELPH CITY (PUSLINCH TWP)
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	006
Well Depth:		***Concession:***	08
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10466732	***Elevation:***	346.16
DP2BR:	90	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	565445.3
Code OB Desc:	Bedrock	***Org CS:***	
Open Hole:		***North83:***	4819012
Cluster Kind:		***UTMRC:***	5
Date Completed:	03-NOV-65	***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:	932614463
Layer:	1
Color:	
General Color:	
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	1
Formation End Depth UOM:	ft

Formation ID:	932614464
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Other Materials:	STONES
Mat3:	
Other Materials:	
Formation Top Depth:	1
Formation End Depth:	35
Formation End Depth UOM:	ft

Formation ID:	932614465
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Other Materials:	STONES
Mat3:	
Other Materials:	
Formation Top Depth:	35
Formation End Depth:	75
Formation End Depth UOM:	ft

Formation ID:	932614466
Layer:	4
Color:	
General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	75
Formation End Depth:	80
Formation End Depth UOM:	ft

Formation ID:	932614468
Layer:	6
Color:	6
General Color:	BROWN
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	90
Formation End Depth:	120
Formation End Depth UOM:	ft

Formation ID:	932614467
Layer:	5
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	80
Formation End Depth:	90
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966702589
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID: 11015302
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930759060
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 120
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930759059
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 95
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996702589
Pump Set At:
Static Level: 45
Final Level After Pumping: 75
Recommended Pump Depth: 80
Pumping Rate: 8
Flowing Rate:
Recommended Pump Rate: 6
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method:
Pumping Duration HR: 0
Pumping Duration MIN: 30
Flowing: N

Water Details

Water ID: 933954929
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 120
Water Found Depth UOM: ft

28	1 of 1	SSE/167.4	336.8 / -1.75	lot 7 con 8 ON	WWIS

Well ID: 6711291
Construction Date:
Data Entry Status:
Data Src: 1

Primary Water Use:	Domestic	**Date Received:**	10/7/1993
Sec. Water Use:	0	**Selected Flag:**	Yes
Final Well Status:	Water Supply	**Abandonment Rec:**	
Water Type:		**Contractor:**	2663
Casing Material:		**Form Version:**	1
Audit No:	124315	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	PUSLINCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	007
Well Depth:		**Concession:**	08
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10475125	**Elevation:**	336.33
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:	o	**East83:**	565322.3
Code OB Desc:	Overburden	**Org CS:**	
Open Hole:		**North83:**	4818655
Cluster Kind:		**UTMRC:**	5
Date Completed:	22-SEP-93	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gps
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932651879
Layer:	3
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Other Materials:	SAND
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	20
Formation End Depth:	65
Formation End Depth UOM:	ft

Formation ID:	932651880
Layer:	4
Color:	
General Color:	
Mat1:	31
Most Common Material:	COARSE GRAVEL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	

Formation Top Depth: 65
Formation End Depth: 75
Formation End Depth UOM: ft

Formation ID: 932651878
Layer: 2
Color:
General Color:
Mat1: 10
Most Common Material: COARSE SAND
Mat2: 31
Other Materials: COARSE GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 3
Formation End Depth: 20
Formation End Depth UOM: ft

Formation ID: 932651877
Layer: 1
Color:
General Color:
Mat1: 01
Most Common Material: FILL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 3
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933210343
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966711291
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11023695
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930773855
Layer: 1
Material: 1
Open Hole or Material: STEEL

Depth From:	
Depth To:	63
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
Casing ID:	930773856
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	75
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996711291
Pump Set At:	
Static Level:	18
Final Level After Pumping:	18
Recommended Pump Depth:	50
Pumping Rate:	20
Flowing Rate:	
Recommended Pump Rate:	20
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934874504
Test Type:	Recovery
Test Duration:	45
Test Level:	18
Test Level UOM:	ft
Pump Test Detail ID:	934348742
Test Type:	Recovery
Test Duration:	15
Test Level:	18
Test Level UOM:	ft
Pump Test Detail ID:	935135034
Test Type:	Recovery
Test Duration:	60
Test Level:	18
Test Level UOM:	ft
Pump Test Detail ID:	934613477
Test Type:	Recovery
Test Duration:	30
Test Level:	18
Test Level UOM:	ft

Water Details

Water ID:	933965204
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	75
Water Found Depth UOM:	ft

Water ID:	933965203
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	65
Water Found Depth UOM:	ft

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29 | **1 of 1** | **S/176.9** | **335.2 / -3.39** | **Guelph ON** | **WWIS**

Well ID:	7188310	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	9/27/2012
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	6607
Casing Material:		**Form Version:**	7
Audit No:	Z147899	**Owner:**	
Tag:	A134137	**Street Name:**	176 ARKELL RD
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	PUSLINCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1004168811	**Elevation:**	335.28
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	565173
Code OB Desc:		**Org CS:**	UTM83
Open Hole:		**North83:**	4818707
Cluster Kind:		**UTMRC:**	4
Date Completed:	05-SEP-12	**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:	1004465655
Layer:	2
Color:	
General Color:	

Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 2
Formation End Depth: 10
Formation End Depth UOM: ft

Formation ID: 1004465656
Layer: 3
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 10
Formation End Depth: 17.5
Formation End Depth UOM: ft

Formation ID: 1004465654
Layer: 1
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 01
Other Materials: FILL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 2
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004465663
Layer: 1
Plug From: 0
Plug To: 6.5
Plug Depth UOM: ft

Plug ID: 1004465664
Layer: 2
Plug From: 6.5
Plug To: 17.5
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1004465662
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1004465653
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004465659
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 7.5
Casing Diameter: 5.1
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1004465660
Layer: 1
Slot: 10
Screen Top Depth: 7.8
Screen End Depth: 17.5
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 6.4

Water Details

Water ID: 1004465658
Layer: 1
Kind Code:
Kind:
Water Found Depth: 10
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1004465657
Diameter: 8
Depth From: 0
Depth To: 17.5
Hole Depth UOM: ft
Hole Diameter UOM: inch

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30 | 1 of 1 | NNE/182.6 | 334.0 / -4.57 | lot 5 con 8 Guelph ON | WWIS

Well ID: 7275559
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: Z243726
Tag: A031808
Construction Method:
Elevation (m):
Elevation Reliability:
Data Entry Status:
Data Src:
Date Received: 11/24/2016
Selected Flag: Yes
Abandonment Rec: Yes
Contractor: 7556
Form Version: 7
Owner:
Street Name: 1159 VICTORIA RD S
County: WELLINGTON
Municipality: PUSLINCH TOWNSHIP
Site Info:

Depth to Bedrock:		***Lot:***	005
Well Depth:		***Concession:***	08
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1006295687	***Elevation:***	334.46
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	565202
Code OB Desc:		***Org CS:***	UTM83
Open Hole:		***North83:***	4819433
Cluster Kind:		***UTMRC:***	4
Date Completed:	11-OCT-16	***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:	1006442800
Layer:	
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	
Formation End Depth:	
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1006442807
Layer:	2
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Plug ID:	1006442806
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1006442805
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1006442799
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006442803
Layer:	
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006442804
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Water Details

Water ID:	1006442802
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006442801
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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31 ***1 of 1*** ***WNW/183.6*** ***333.6 / -5.03*** ***Guelph ON*** ***WWIS***

Well ID:	7236307	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	1/26/2015
Sec. Water Use:		**Selected Flag:**	Yes

Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	7238
Casing Material:		**Form Version:**	7
Audit No:	Z198665	**Owner:**	
Tag:	A174318	**Street Name:**	1159 VICTORIA RD SOUTH
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	GUELPH CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	1005293638	**Elevation:**	333.37
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	564798
Code OB Desc:		**Org CS:**	UTM83
Open Hole:		**North83:**	4819136
Cluster Kind:		**UTMRC:**	4
Date Completed:		**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:	1005509928
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	18
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005509935
Layer:	1
Plug From:	0
Plug To:	1
Plug Depth UOM:	ft

Plug ID:	1005509936
Layer:	2

Plug From: 1
Plug To: 8
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1005509934
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1005509927
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005509931
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 8
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1005509932
Layer: 1
Slot: 10
Screen Top Depth: 8
Screen End Depth: 18
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Water Details

Water ID: 1005509930
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1005509929
Diameter: 8
Depth From: 0
Depth To: 18
Hole Depth UOM: ft
Hole Diameter UOM: inch

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
32	1 of 1	ESE/183.9	346.0 / 7.40	The Corporation of the City of Guelph 264 Arkell Rd Part of Lot 6, Concession 8, Parts 1 and 2 of Reference Plan 61R-11714 Guelph ON N1H 3A1	ECA

Approval No: 8749-985RGD
Approval Date: 2013-05-31
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City: Guelph
Longitude:
Latitude:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: 264 Arkell Rd Part of Lot 6, Concession 8, Parts 1 and 2 of Reference Plan 61R-11714
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3563-985R4G-14.pdf

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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
33	1 of 6	ESE/184.2	346.0 / 7.40	The Corporation of the City of Guelph 246 Arkell Rd Part of Lot 6, Concession 8, Parts 1 and 2 of Reference Plan 61R-11714 Guelph ON N1H 3A1	ECA

Approval No: 1049-9ADGKC
Approval Date: 2013-08-20
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City: Guelph
Longitude:
Latitude:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: 246 Arkell Rd Part of Lot 6, Concession 8, Parts 1 and 2 of Reference Plan 61R-11714
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2398-97GK9H-14.pdf

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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
33	2 of 6	ESE/184.2	346.0 / 7.40	246 Arkell Rd Guelph ON N1L 1E6	EHS

Order ID: 238146
Order No: 20130305004
Customer ID: 75327
Company ID: 131
Status: C
Report Code: 23CAN
Report Type: RSC Report (Rural)
Report Date: 18-MAR-13
Report Requested by: Peto MacCallum Ltd.
Nearest Intersection:
Previous Site Name:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans
Date Received: 05-MAR-13
Lot/Building Size: 2.1 acres
Municipality:
Client Prov/State: ON
Search Radius (km): .01
Large Radius: 2
X: 0
Y: 0

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
33	3 of 6	ESE/184.2	346.0 / 7.40	246 Arkell Rd Guelph ON N1L 1E6	EHS

Order ID: 238147
Order No: 20130305005
Customer ID: 75327
Company ID: 131
Status: C
Report Code: 23CAN
Report Type: RSC Report (Rural)
Report Date: 13-MAR-13
Report Requested by: Peto MacCallum Ltd.
Date Received: 05-MAR-13
Lot/Building Size: 0.2 acres
Municipality:
Client Prov/State: ON
Search Radius (km): .3
Large Radius: 2
X: 0
Y: 0

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

Nearest Intersection:
Previous Site Name:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

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33 **4 of 6** **ESE/184.2** **346.0 / 7.40** **246 Arkell Road Guelph ON N1L 1E6** **EHS**

Order ID:	181457	**Date Received:**	12/21/2010 5:02:32 PM
Order No:	20101221035	**Lot/Building Size:**	
Customer ID:	75327	**Municipality:**	
Company ID:	131	**Client Prov/State:**	ON
Status:	C	**Search Radius (km):**	0.25
Report Code:	3CAN	**Large Radius:**	2
Report Type:	Standard Report	**X:**	-80.191334
Report Date:	12/29/2010	**Y:**	43.520305

Report Requested by: Peto MacCallum Ltd.
Nearest Intersection:
Previous Site Name:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

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33 **5 of 6** **ESE/184.2** **346.0 / 7.40** **246 ARKELL ROAD, GUELPH, ONTARIO N1L 1E6 Guelph ON** **RSC**

Reg No:	209507	**Cert Date:**	
RA No:		**Cert Prop Use No:**	
RSC Type:	Phase 1 and 2 RSC	**Intended Prop Use:**	Residential
Curr Property Use:	Agricultural/Other	**Nm of Qual. Person:**	Marian Molodecki
District Office:	Guelph District Office	**Stratified (Y/N):**	
Date Submitted:	2013/08/07	**Audit (Y/N):**	
Date Ack:		**Entire Leg Prop. (Y/N):**	
Date Returned:		**Accuracy Estimate:**	
Restoration Type:		**Telephone:**	
Soil Type:		**Fax:**	
Criteria:		**Email:**	
CPU Issued Sect 1686:			

Asmt Roll No: 23 08 010 011 01040 0000
Prop. ID No: 71505 0684 LT
Property Municipal Address: 246 ARKELL ROAD, GUELPH, ONTARIO N1L 1E6
Mailing Address:
Latitude & Latitude:
UTM Coordinates:
Consultant:
Filing Owner: Victoria Wood (Arkell) Ltd.
Legal Desc:
Measurement Method:
Applicable Standards:
RSC PDF: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24362&fileName=BROWNFIELDS-E-FILE.pdf

--Details--
Document Heading: Supporting Documents
Document Type: Phase 2 Conceptual Site Model
Document Name: Phase Two Conceptual Site Model.pdf
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24355&fileName=Phase+Two+Conceptual+Site+Model.pdf

Document Heading: Supporting Documents
Document Type: Area(s) of Potential Environmental Concern
Document Name: Areas of Potential Environmental Concern Pt 1.pdf

Document Link:	https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24360&fileName=Areas+of+Potential+Environmental+Concern+Pt+1.pdf
Document Heading:	Supporting Documents
Document Type:	Table of Current and Past Property Use
Document Name:	Table of Current and Past Uses.pdf
Document Link:	https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24357&fileName=Table+of+Current+and+Past+Uses.pdf
Document Heading:	Supporting Documents
Document Type:	Lawyer's letter consisting of a legal description of the property
Document Name:	Legal Description Letter.pdf
Document Link:	https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24358&fileName=Legal+Description+Letter.pdf
Document Heading:	Supporting Documents
Document Type:	Copy of any deed(s), transfer(s) or other document(s)
Document Name:	Transfer Deed.pdf
Document Link:	https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24359&fileName=Transfer+Deed.pdf
Document Heading:	Supporting Documents
Document Type:	Certificate of Status
Document Name:	administratorsmithvaleriote com_20130719_092937.pdf
Document Link:	https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24354&fileName=administratorsmithvaleriote+com_20130719_092937.pdf
Document Heading:	Supporting Documents
Document Type:	A Current plan of Survey
Document Name:	61R11714.pdf
Document Link:	https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24353&fileName=61R11714.pdf
Document Heading:	Supporting Documents
Document Type:	Proof of the owner's authorization
Document Name:	Agent Authorization Letter Part 1 DS.pdf
Document Link:	https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24352&fileName=Agent+Authorization+Letter+Part+1+DS.pdf

33	6 of 6	ESE/184.2	346.0 / 7.40	246 ARKELL ROAD, GUELPH, ONTARIO N1L 1E6 Guelph ON	RSC

Reg No:	209546	***Cert Date:***	
RA No:		***Cert Prop Use No:***	
RSC Type:	Phase 1 RSC	***Intended Prop Use:***	Parkland
Curr Property Use:	Agricultural/Other	***Nm of Qual. Person:***	Marian Molodecki
District Office:	Guelph District Office	***Stratified (Y/N):***	
Date Submitted:	2013/08/07	***Audit (Y/N):***	
Date Ack:		***Entire Leg Prop. (Y/N):***	
Date Returned:		***Accuracy Estimate:***	
Restoration Type:		***Telephone:***	
Soil Type:		***Fax:***	
Criteria:		***Email:***	
CPU Issued Sect 1686:			
Asmt Roll No:	23 08 010 011 01040 0000		
Prop. ID No:	71505 0684 LT		
Property Municipal Address:	246 ARKELL ROAD, GUELPH, ONTARIO N1L 1E6		
Mailing Address:			
Latitude & Latitude:			
UTM Coordinates:			
Consultant:			
Filing Owner:	Victoria Wood (Arkell) Ltd.		

Legal Desc:
Measurement Method:
Applicable Standards:
RSC PDF: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24444&fileName=BROWNFIELDS-E-FILE.pdf

--Details--
Document Heading: Supporting Documents
Document Type: Table of Current and Past Property Use
Document Name: Table of Current and Past Uses.pdf
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24441&fileName=Table+of+Current+and+Past+Uses.pdf

Document Heading: Supporting Documents
Document Type: Proof of the owner's authorization
Document Name: Agent Authorization Letter.pdf
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24446&fileName=Agent+Authorization+Letter.pdf

Document Heading: Supporting Documents
Document Type: Lawyer's letter consisting of a legal description of the property
Document Name: Legal Description Letterr.pdf
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24447&fileName=Legal+Description+Letterr.pdf

Document Heading: Supporting Documents
Document Type: Copy of any deed(s), transfer(s) or other document(s)
Document Name: Transfer Deed.pdf
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24445&fileName=Transfer+Deed.pdf

Document Heading: Supporting Documents
Document Type: Phase 1 Conceptual Site Model
Document Name: Phase One CSM.pdf
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24440&fileName=Phase+One+CSM.pdf

Document Heading: Supporting Documents
Document Type: Certificate of Status
Document Name: Certificate of Status.pdf
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24439&fileName=Certificate+of+Status.pdf

Document Heading: Supporting Documents
Document Type: A Current plan of Survey
Document Name: Current Plan of Survey.pdf
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument?attachmentId=24443&fileName=Current+Plan+of+Survey.pdf

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34	*1 of 1*	*S/186.0*	*334.9 / -3.72*	***164 And 174 Arkell Rd Guelph ON***	***EHS***

Order ID:	219047	***Date Received:***	21-AUG-12
Order No:	20120821014	***Lot/Building Size:***	
Customer ID:	39567	***Municipality:***	
Company ID:	50665	***Client Prov/State:***	ON
Status:	C	***Search Radius (km):***	.25
Report Code:	2CAN	***Large Radius:***	2
Report Type:	Standard Select Report	***X:***	-80.193745
Report Date:	24-AUG-12	***Y:***	43.518442
Report Requested by:	LVM Inc.		
Nearest Intersection:			
Previous Site Name:			
Additional Info Ordered:			

35	1 of 1	N/186.2	333.9 / -4.66	lot 5 con 8 ON	WWIS

Well ID:	6713994	**Data Entry Status:**	
Construction Date:		**Data Src:**	1
Primary Water Use:		**Date Received:**	2/11/2002
Sec. Water Use:		**Selected Flag:**	Yes
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	
Water Type:		**Contractor:**	2663
Casing Material:		**Form Version:**	1
Audit No:	235121	**Owner:**	
Tag:		**Street Name:**	
Construction Method:		**County:**	WELLINGTON
Elevation (m):		**Municipality:**	PUSLINCH TOWNSHIP
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	005
Well Depth:		**Concession:**	08
Overburden/Bedrock:		**Concession Name:**	CON
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10528529	**Elevation:**	334.57
DP2BR:		**Elevrc:**	
Spatial Status:	Improved	**Zone:**	17
Code OB:	_	**East83:**	565175
Code OB Desc:	No formation data	**Org CS:**	N83
Open Hole:		**North83:**	4819440
Cluster Kind:		**UTMRC:**	3
Date Completed:	08-NOV-01	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:	1999-2004 MOE Water Well Data Improvement Project		
Improvement Location Method:	GIS10000		
Source Revision Comment:	Northing and/or Easting field has been changed. Reasonably sure well location matches sketch map (similar features).approx using RD names		
Supplier Comment:	Accuracy was not specified from source. Within 20m horizontal accuracy assumed as worst case using GIS at a scale of 1:10000.		

Method of Construction & Well Use

Method Construction ID:	966713994
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	

Pipe Information

Pipe ID:	11077099
Casing No:	1
Comment:	
Alt Name:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
36	1 of 2	S/196.8	334.9 / -3.72	The Corporation of the City of Guelph 164 Arkell Rd Guelph ON N1H 3A1	ECA

Approval No: 7075-5VVHYU
Approval Date: 2004-02-05
Status: Approved
Record Type: ECA
Link Source: IDS
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Address: 164 Arkell Rd
Full Address:
Full PDF Link:
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
36	2 of 2	S/196.8	334.9 / -3.72	City of Guelph 164 Arkell Road Guelph ON	SPL

Ref No: 0325-ANCMS4
Site No:
Incident Dt: 6/14/2017
Year:
Incident Cause:
Incident Event: Leak/Break
Contaminant Code: 15
Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1: n/a
Contaminant Qty: 0 other - see incident description
Environment Impact:
Nature of Impact:
Receiving Medium:
Receiving Env: Land
Health/Env Conseq: 2 - Minor Environment
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/15/2017
Dt Document Closed:
Agency Involved:
SAC Action Class:
Incident Reason: Unknown / N/A
Incident Summary: C of Guelph: engine oil to land,
Discharger Report:
Material Group:
Client Type: Municipal Government
Sector Type: Miscellaneous Industrial
Source Type: Other
Nearest Watercourse:
Site Name: Burke Well - Spill Site<UNOFFICIAL>
Site Address: 164 Arkell Road
Site District Office: Guelph
Site County/District: County of Wellington
Site Postal Code:
Site Region: West Central
Site Municipality: Guelph
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Geo Ref Meth:
Site Map Datum:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	1 of 16	N/198.1	334.8 / -3.81	1159 Victoria Road South Guelph ON N1L 1B3	EHS

Order ID: 187508
Order No: 20110530019
Customer ID: 25686
Company ID: 383
Status: C
Report Code: 4CAN
Report Type: Custom Report
Report Date: 6/7/2011
Report Requested by: AME Materials Engineering
Nearest Intersection: Victoria Road South and Arkell Road
Previous Site Name:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; Aerial Photos
Date Received: 5/30/2011 11:37:20 AM
Lot/Building Size:
Municipality: County of Wellington
Client Prov/State: ON
Search Radius (km): 0.25
Large Radius: 0.25
X: -80.195388
Y: 43.531231

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	2 of 16	N/198.1	334.8 / -3.81	1159 Victoria Road S Puslinch, Guelph ON	EHS

Order ID:	190922	**Date Received:**	8/9/2011 10:55:36 AM
Order No:	20110809013	**Lot/Building Size:**	
Customer ID:	63887	**Municipality:**	
Company ID:	50665	**Client Prov/State:**	ON
Status:	C	**Search Radius (km):**	0.25
Report Code:	4CAN	**Large Radius:**	0.25
Report Type:	Custom Report	**X:**	-80.195501
Report Date:	8/17/2011	**Y:**	43.531231
Report Requested by:	LVM Inc.		
Nearest Intersection:			
Previous Site Name:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	3 of 16	N/198.1	334.8 / -3.81	VICTORIA PARK GOLF CLUB WEST 1159 VICTORIA RD S GUELPH ON N1L 1B3	FST

Instance No:	11642795
Cont Name:	
Instance Type:	FS Liquid Fuel Tank
Fuel Type:	Gasoline
Status:	Active
Capacity:	2200
Tank Material:	Steel
Corrosion Protection:	Painted
Tank Type:	Single Wall Horizontal AST
Install Year:	NULL
Parent Facility Type:	Fuels Safety Private Fuel Outlet - Self Serve
Facility Type:	FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	4 of 16	N/198.1	334.8 / -3.81	VICTORIA PARK GOLF CLUB WEST 1159 VICTORIA RD S GUELPH ON N1L 1B3	FST

Instance No:	11642816
Cont Name:	
Instance Type:	FS Liquid Fuel Tank
Fuel Type:	Diesel
Status:	Active
Capacity:	1360
Tank Material:	Steel
Corrosion Protection:	Painted
Tank Type:	Single Wall Horizontal AST
Install Year:	NULL
Parent Facility Type:	Fuels Safety Private Fuel Outlet - Self Serve
Facility Type:	FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	5 of 16	N/198.1	334.8 / -3.81	VICTORIA PARK GOLF CLUB WEST 1159 VICTORIA RD S GUELPH ON N1L 1B3	FSTH

License Issue Date:	8/3/2001
Tank Status:	Licensed
Tank Status As Of:	August 2007
Operation Type:	Private Fuel Outlet
Facility Type:	Gasoline Station - Self Serve

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

--Details--
Status: Active
Year of Installation:
Corrosion Protection:
Capacity: 2200
Tank Fuel Type: Liquid Fuel Single Wall AST - Gasoline

Status: Active
Year of Installation:
Corrosion Protection:
Capacity: 1360
Tank Fuel Type: Liquid Fuel Single Wall AST - Diesel

37	6 of 16	N/198.1	334.8 / -3.81	***VICTORIA PARK GOLF CLUB WEST*** ***1159 VICTORIA RD S*** ***GUELPH ON N1L 1B3***	***FSTH***

License Issue Date: 8/3/2001
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:
Corrosion Protection:
Capacity: 2200
Tank Fuel Type: Liquid Fuel Single Wall AST - Gasoline

Status: Active
Year of Installation:
Corrosion Protection:
Capacity: 1360
Tank Fuel Type: Liquid Fuel Single Wall AST - Diesel

37	7 of 16	N/198.1	334.8 / -3.81	***VICTORIA PARK GOLF CLUB WEST*** ***DIODORO INVESTMENTS 1159 Victoria Road South*** ***GUELPH ON N1L 1B3***	***GEN***

Generator No.: ON0909201
Status:
Approval Years: 06,07,08
Contam. Facility:
MHSW Facility:
SIC Code: 713910
SIC Description: Golf Courses and Country Clubs

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

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

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

37	8 of 16	N/198.1	334.8 / -3.81	***VICTORIA PARK GOLF CLUB WEST*** ***DIODORO INVESTMENTS 1159 Victoria Road***	***GEN***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				South GUELPH ON N1L 1B3	

Generator No.: ON0909201
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 713910
SIC Description: Golf Courses and Country Clubs

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

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

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

37	9 of 16	N/198.1	334.8 / -3.81	VICTORIA PARK GOLF CLUB WEST DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	GEN

Generator No.: ON0909201
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 713910
SIC Description: Golf Courses and Country Clubs

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

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

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

37	10 of 16	N/198.1	334.8 / -3.81	VICTORIA PARK GOLF CLUB WEST DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	GEN

Generator No.: ON0909201
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 713910
SIC Description: Golf Courses and Country Clubs

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

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

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	11 of 16	N/198.1	334.8 / -3.81	VICTORIA PARK GOLF CLUB WEST DIODORO INVESTMENTS 1159 Victoria Road South GUELPH ON N1L 1B3	GEN

Generator No.: ON0909201
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 713910
SIC Description: Golf Courses and Country Clubs

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

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

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	12 of 16	N/198.1	334.8 / -3.81	VICTORIA PARK GOLF CLUB WEST DIODORO INVESTMENTS R.R. #21159 Victoria Road South GUELPH ON N1L 1B3	GEN

Generator No.: ON0909201
Status:
Approval Years: 02,03,04
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

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

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	13 of 16	N/198.1	334.8 / -3.81	VICTORIA PARK GOLF CLUB WEST DIODORO INVESTMENTS R.R. #2 1159 Victoria Road South GUELPH ON N1L 1B3	GEN

Generator No.: ON0909201
Status:
Approval Years: 05
Contam. Facility:
MHSW Facility:
SIC Code: 713910
SIC Description: Golf Courses and Country Clubs

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

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

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	14 of 16	N/198.1	334.8 / -3.81	Victoria Park Village Inc. Property of Victoria Park Village Inc. 1159 Victoria Road South, Lot: 5, Concession: 8, Geographic Township of Puslinch, City of Guelph, County of Wellington CITY OF GUELPH ON	PTTW

EBR Registry No.: 012-7633
Ministry Ref. No.: 3060-A9EHZG
Notice Type: Instrument Decision
Notice Date: October 13, 2016
Proposal Date: May 13, 2016
Year: 2016
Proponent Address: 410 Industrial Drive, Milton Ontario, Canada L9T 5A6
Instrument Type: (OWRA s. 34) - Permit to Take Water
Location Other:

Location:

Property of Victoria Park Village Inc. 1159 Victoria Road South, Lot: 5, Concession: 8, Geographic Township of Puslinch, City of Guelph, County of Wellington CITY OF GUELPH

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	15 of 16	N/198.1	334.8 / -3.81	Victoria Park Village Inc. 1159 Victoria Road South Lot 5, Concession 8 City of Guelph, County of Wellington CITY OF GUELPH ON	PTTW

EBR Registry No.: 013-1122
Ministry Ref. No.: 4843-APDPLJ
Notice Type: Instrument Decision
Notice Date: October 13, 2017
Proposal Date: July 26, 2017
Year: 2017
Proponent Address: 410 Industrial Drive, Milton Ontario, Canada L9T 5A6
Instrument Type: (OWRA s. 34) - Permit to Take Water
Location Other:

Location:

1159 Victoria Road South Lot 5, Concession 8 City of Guelph, County of Wellington CITY OF GUELPH

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	16 of 16	N/198.1	334.8 / -3.81	Victoria Park Village Inc. Property of Victoria Park Village Inc. 1159 Victoria Road South, Lot: 5, Concession: 8, Geographic Township of Puslinch, City of Guelph, County of Wellington CITY OF GUELPH ON	PTTW

EBR Registry No.: 012-7633
Ministry Ref. No.:
Notice Type: Instrument Proposal
Notice Date: May 13, 2016
Proposal Date: May 13, 2016
Year: 2016
Proponent Address: 410 Industrial Drive, Milton Ontario, Canada L9T 5A6
Instrument Type: Victoria Park Village Inc. (OWRA s. 34) - Permit to Take Water
Location Other:

Location:

Property of Victoria Park Village Inc. 1159 Victoria Road South, Lot: 5, Concession: 8, Geographic Township of Puslinch, City of Guelph, County of Wellington CITY OF GUELPH

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38 | ***1 of 1*** | ***E/201.2*** | ***344.9 / 6.28*** | ***lot 6 con 8 ON*** | ***WWIS***

Well ID:	6704984	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:		***Date Received:***	2/25/1974
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Test Hole	***Abandonment Rec:***	
Water Type:		***Contractor:***	2336
Casing Material:		***Form Version:***	1
Audit No:		***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	PUSLINCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	006
Well Depth:		***Concession:***	08
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10469086	***Elevation:***	345.42
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	o	***East83:***	565495.3
Code OB Desc:	Overburden	***Org CS:***	
Open Hole:		***North83:***	4819023
Cluster Kind:		***UTMRC:***	4
Date Completed:	21-JAN-74	***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:	932624409
Layer:	5
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Other Materials:	STONES
Mat3:	
Other Materials:	
Formation Top Depth:	19

Formation End Depth: 20
Formation End Depth UOM: ft

Formation ID: 932624407
Layer: 3
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2: 13
Other Materials: BOULDERS
Mat3:
Other Materials:
Formation Top Depth: 9
Formation End Depth: 13
Formation End Depth UOM: ft

Formation ID: 932624406
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 05
Other Materials: CLAY
Formation Top Depth: 1
Formation End Depth: 9
Formation End Depth UOM: ft

Formation ID: 932624408
Layer: 4
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 05
Other Materials: CLAY
Formation Top Depth: 13
Formation End Depth: 19
Formation End Depth UOM: ft

Formation ID: 932624405
Layer: 1
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 1
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966704984
Method Construction Code: 1
Method Construction: Cable Tool

Other Method Construction:

Pipe Information

Pipe ID: 11017656
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930763330
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 20
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996704984
Pump Set At:
Static Level: 8
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 0
Pumping Duration MIN: 5
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 935135868
Test Type: Recovery
Test Duration: 60
Test Level: 8
Test Level UOM: ft

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39 | ***1 of 1*** | ***S/201.8*** | ***334.9 / -3.72*** | ***lot 6 con 8 ON*** | ***WWIS***

Well ID: 6704985
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):

Data Entry Status:
Data Src: 1
Date Received: 2/25/1974
Selected Flag: Yes
Abandonment Rec:
Contractor: 2336
Form Version: 1
Owner:
Street Name:
County: WELLINGTON
Municipality: PUSLINCH TOWNSHIP

Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Site Info:
Lot: 006
Concession: 08
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10469087
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 24-JAN-74
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 334.99
Elevrc:
Zone: 17
East83: 565140.3
Org CS:
North83: 4818689
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: p4

Overburden and Bedrock Materials Interval

Formation ID: 932624410
Layer: 1
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2: 01
Other Materials: FILL
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 4
Formation End Depth UOM: ft

Formation ID: 932624413
Layer: 4
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 18
Formation End Depth: 20
Formation End Depth UOM: ft

Formation ID: 932624412
Layer: 3
Color: 6
General Color: BROWN
Mat1: 11

Most Common Material:	GRAVEL
Mat2:	28
Other Materials:	SAND
Mat3:	05
Other Materials:	CLAY
Formation Top Depth:	6
Formation End Depth:	18
Formation End Depth UOM:	ft
Formation ID:	932624411
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	4
Formation End Depth:	6
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966704985
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11017657
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930763331
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	20
Casing Diameter:	5
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996704985
Pump Set At:	
Static Level:	12
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM

Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	2
Pumping Duration HR:	0
Pumping Duration MIN:	5
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	935135869
Test Type:	Recovery
Test Duration:	60
Test Level:	12
Test Level UOM:	ft

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40 | ***1 of 1*** | ***WNW/215.2*** | ***334.9 / -3.72*** | ***The Corporation of the City of Guelph*** | ***ECA***

Guelph ON N1H 3A1

Approval No:	2573-AK3PCF	**SWP Area Name:**	Grand River
Approval Date:	2017-03-08	**MOE District:**	Guelph
Status:	Approved	**City:**	Guelph
Record Type:	ECA	**Longitude:**	-80.198
Link Source:	IDS	**Latitude:**	43.5229
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/5301-AG5MJL-14.pdf		

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41 | ***1 of 1*** | ***SE/225.1*** | ***337.9 / -0.72*** | ***The Corporation of the City of Guelph*** | ***SPL***

Corner of Coutts Court and Bard Blvd.
Guelph ON

Ref No:	1073-734L78	**Discharger Report:**	
Site No:		**Material Group:**	Oil
Incident Dt:		**Client Type:**	
Year:		**Sector Type:**	Other Motor Vehicle
Incident Cause:	Other Discharges	**Source Type:**	
Incident Event:		**Nearest Watercourse:**	
Contaminant Code:	13	**Site Name:**	Garbage Truck<UNOFFICIAL>
Contaminant Name:	DIESEL FUEL	**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site County/District:**	
Contaminant UN No 1:		**Site Postal Code:**	
Contaminant Qty:	400 L	**Site Region:**	
Environment Impact:	Confirmed	**Site Municipality:**	Guelph
Nature of Impact:	Soil Contamination	**Site Lot:**	
Receiving Medium:	Land	**Site Conc:**	
Receiving Env:		**Northing:**	
Health/Env Conseq:		**Easting:**	
MOE Response:	No Field Response	**Site Geo Ref Accu:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Meth:**	
MOE Reported Dt:	5/11/2007	**Site Map Datum:**	
Dt Document Closed:	7/6/2007		
Agency Involved:			
SAC Action Class:			
Incident Reason:	Unknown - Reason not determined		
Incident Summary:	Guelph: Garbage Truck Rollover, Diesel to road		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	1 of 1	S/227.4	334.9 / -3.72	lot 6 con 8 ON	WWIS

Well ID: 6702585
Construction Date:
Primary Water Use: Livestock
Sec. Water Use: Domestic
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 1/9/1952
Selected Flag: Yes
Abandonment Rec:
Contractor: 2414
Form Version: 1
Owner:
Street Name:
County: WELLINGTON
Municipality: GUELPH CITY (PUSLINCH TWP)
Site Info:
Lot: 006
Concession: 08
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10466728
DP2BR: 102
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 17-SEP-51
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 334.3
Elevrc:
Zone: 17
East83: 565065.3
Org CS:
North83: 4818651
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9

Overburden and Bedrock Materials Interval

Formation ID: 932614447
Layer: 4
Color:
General Color:
Mat1: 14
Most Common Material: HARDPAN
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 79
Formation End Depth: 89
Formation End Depth UOM: ft

Formation ID: 932614445
Layer: 2
Color:
General Color:
Mat1: 11

Most Common Material: GRAVEL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 50
Formation End Depth: 65
Formation End Depth UOM: ft

Formation ID: 932614446
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 09
Other Materials: MEDIUM SAND
Mat3:
Other Materials:
Formation Top Depth: 65
Formation End Depth: 79
Formation End Depth UOM: ft

Formation ID: 932614444
Layer: 1
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Other Materials: BOULDERS
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 50
Formation End Depth UOM: ft

Formation ID: 932614449
Layer: 6
Color: 6
General Color: BROWN
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 102
Formation End Depth: 113
Formation End Depth UOM: ft

Formation ID: 932614448
Layer: 5
Color:
General Color:
Mat1: 09
Most Common Material: MEDIUM SAND
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 89
Formation End Depth: 102
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:	966702585
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11015298
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930759051
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	102
Casing Diameter:	7
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Casing ID:	930759052
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	113
Casing Diameter:	7
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996702585
Pump Set At:	
Static Level:	29
Final Level After Pumping:	39
Recommended Pump Depth:	
Pumping Rate:	6
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	N

Water Details

Water ID:	933954925
Layer:	1
Kind Code:	1
Kind:	FRESH

Water Found Depth: 105
Water Found Depth UOM: ft

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43 **1 of 1** **NNW/235.6** **334.9 / -3.69** **GUELPH ON** **WWIS**

Well ID: 6715740
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z39737
Tag: A031808
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: 5/30/2006
Selected Flag: Yes
Abandonment Rec:
Contractor: 7238
Form Version: 3
Owner:
Street Name: 1159 VICTORIA RD S
County: WELLINGTON
Municipality: GUELPH CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11558261
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 27-APR-06
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation: 334.6
Elevrc:
Zone: 17
East83: 565009
Org CS: UTM83
North83: 4819430
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 933048658
Layer: 3
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 06
Other Materials: SILT
Formation Top Depth: 1.5
Formation End Depth: 3.05
Formation End Depth UOM: m

Formation ID: 933048659

Layer:	4
Color:	2
General Color:	GREY
Mat1:	34
Most Common Material:	TILL
Mat2:	06
Other Materials:	SILT
Mat3:	
Other Materials:	
Formation Top Depth:	3.05
Formation End Depth:	4.57
Formation End Depth UOM:	m

Formation ID:	933048656
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	02
Most Common Material:	TOPSOIL
Mat2:	65
Other Materials:	DARK-COLOURED
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	.3
Formation End Depth UOM:	m

Formation ID:	933048657
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	11
Other Materials:	GRAVEL
Mat3:	
Other Materials:	
Formation Top Depth:	.3
Formation End Depth:	1.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933289612
Layer:	1
Plug From:	0
Plug To:	1.2
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	966715740
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	11567868
Casing No:	1
Comment:	

Alt Name:

Construction Record - Casing

Casing ID:	930876887
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	1.57
Casing Diameter:	3
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	933417712
Layer:	1
Slot:	10
Screen Top Depth:	1.57
Screen End Depth:	4.57
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	996715740
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	9
Flowing:	N

Hole Diameter

Hole ID:	11690360
Diameter:	15
Depth From:	0
Depth To:	4.57
Hole Depth UOM:	m
Hole Diameter UOM:	cm

44	*1 of 1*	*NNW/246.6*	*334.2 / -4.33*	*lot 5 con 8 ON*	*WWIS*

Well ID:	6709380	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Irrigation	***Date Received:***	9/7/1988
Sec. Water Use:	0	***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	

Water Type:		***Contractor:***	2336
Casing Material:		***Form Version:***	1
Audit No:	31892	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	PUSLINCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	005
Well Depth:		***Concession:***	08
Overburden/Bedrock:		***Concession Name:***	CON
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10473233	***Elevation:***	334.6
DP2BR:	64	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	565013.3
Code OB Desc:	Bedrock	***Org CS:***	
Open Hole:		***North83:***	4819448
Cluster Kind:		***UTMRC:***	5
Date Completed:	30-JUL-88	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	gps
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932643286
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	12
Other Materials:	STONES
Mat3:	
Other Materials:	
Formation Top Depth:	15
Formation End Depth:	64
Formation End Depth UOM:	ft

Formation ID:	932643285
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	28
Other Materials:	SAND
Mat3:	11
Other Materials:	GRAVEL
Formation Top Depth:	0
Formation End Depth:	15
Formation End Depth UOM:	ft

Formation ID: 932643288
Layer: 4
Color: 6
General Color: BROWN
Mat1: 26
Most Common Material: ROCK
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 75
Formation End Depth: 105
Formation End Depth UOM: ft

Formation ID: 932643287
Layer: 3
Color: 6
General Color: BROWN
Mat1: 26
Most Common Material: ROCK
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 64
Formation End Depth: 75
Formation End Depth UOM: ft

Formation ID: 932643289
Layer: 5
Color: 6
General Color: BROWN
Mat1: 26
Most Common Material: ROCK
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 105
Formation End Depth: 135
Formation End Depth UOM: ft

Formation ID: 932643290
Layer: 6
Color: 2
General Color: GREY
Mat1: 26
Most Common Material: ROCK
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 135
Formation End Depth: 178
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966709380
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID:	11021803
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930770383
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	178
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Casing ID:	930770382
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	65
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996709380
Pump Set At:	
Static Level:	24
Final Level After Pumping:	42
Recommended Pump Depth:	60
Pumping Rate:	300
Flowing Rate:	
Recommended Pump Rate:	300
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:	N

Draw Down & Recovery

Pump Test Detail ID:	934342640
Test Type:	Recovery
Test Duration:	15
Test Level:	31
Test Level UOM:	ft

Pump Test Detail ID:	934869977
Test Type:	Recovery
Test Duration:	45
Test Level:	30
Test Level UOM:	ft

Pump Test Detail ID: 934617253
Test Type: Recovery
Test Duration: 30
Test Level: 31
Test Level UOM: ft

Pump Test Detail ID: 935138224
Test Type: Recovery
Test Duration: 60
Test Level: 30
Test Level UOM: ft

Water Details

Water ID: 933962765
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 150
Water Found Depth UOM: ft

Water ID: 933962766
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 175
Water Found Depth UOM: ft

Unplottable Summary

Total: 16 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AAGR		Lot 5-8 Con 5	Guelph ON	
CA	DIRK WYNEN, O/A DIRK WYNEN SERVICES	PT.LOT 6/CONC.6, RP# 61R-4245	GUELPH TWP. ON	
CA	Elora Rail Trail Sewer	Part of Lot 6, Lot 7 & Lot 8, RPlan 246	Centre Wellington ON	
CA	The Corporation of the City of Guelph	Arkell Rd (from Gordon Street to Victoria Road)	Guelph ON	
CA	TWP.	ARKELL RD. (RD.37)	PUSLINCH ON	
CA	The Corporation of the City of Guelph	Arkell Rd (from Gordon Street to Victoria Road)	Guelph ON	
NPCB	MENAGEMENT BOARD SECRETARIAT	ARKELL ROAD ARKELL RESEARCH STATION	ARKELL ON	
OPCB	MANAGEMENT BOARD SECRETARIAT	ARKELL RESEARCH STATION ARKELL ROAD	ARKELL ON	
PES	DUTCH MILL NURSERY LTD.	R.R. #2, ARKELL ROAD	GUELPH ON	
PTTW	Diodoro Investments Ltd. c/o Victoria Park Golf Club West	Lot 5, Concession 8, City of Guelph, Wellington County CITY OF GUELPH	ON	
SPL	ONTARIO HYDRO	LOT 5, MOTOR VEHICLE (OPERATING FLUID)	ERIN TOWN ON	
WWIS		lot 5	ON	
WWIS		lot 5	ON	
WWIS		lot 5 con 8	ON	
WWIS		lot 5	ON	
WWIS		lot 5	ON	

Unplottable Report

Site:
Lot 5-8 Con 5 Guelph ON

Database: ***AAGR***

Type:
Region/County: Wellington
Township: Guelph
Concession:: 5
Lot:: 5-8
Size (ha)::
Landuse::
Comments::

Site: ***DIRK WYNEN, O/A DIRK WYNEN SERVICES***
PT.LOT 6/CONC.6, RP# 61R-4245 GUELPH TWP. ON

Database: ***CA***

Certificate #: 8-2362-95-006
Application Year: 95
Issue Date: 10/23/95
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: WASTE OIL FURNACE MODEL CB-2000
Contaminants:: Vinylidene Chloride (Also: 1,1-Dichloroethene, Acetylene, Dicapryl Phthalate
Emission Control::

Site: ***Elora Rail Trail Sewer***
Part of Lot 6, Lot 7 & Lot 8, RPlan 246 Centre Wellington ON

Database: ***CA***

Certificate #: 2501-4N7PRA
Application Year: 00
Issue Date: 8/14/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: James Keating Construction Limited
Client Address:: 70 Mathieson St.
Client City:: Centre Wellington
Client Postal Code:: N0B 1S0
Project Description:: Installation of an underground sanitary sewer and apurtenances to service a commercial site being 0.966 hectares in size.
Contaminants::
Emission Control::

Site: ***The Corporation of the City of Guelph***
Arkell Rd (from Gordon Street to Victoria Road) Guelph ON

Database: ***CA***

Certificate #: 3084-7CAQT3
Application Year: 2008
Issue Date: 3/7/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved

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

Site: ***TWP.***
ARKELL RD. (RD.37) PUSLINCH ON

Database: ***CA***

Certificate #: 3-0361-85-006
Application Year: 85
Issue Date: 7/10/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: ***The Corporation of the City of Guelph***
Arkell Rd (from Gordon Street to Victoria Road) Guelph ON

Database: ***CA***

Certificate #: 9839-7CDS44
Application Year: 2008
Issue Date: 3/7/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: ***MENAGEMENT BOARD SECRETARIAT***
ARKELL ROAD ARKELL RESEARCH STATION ARKELL ON

Database: ***NPCB***

Company Code: F0453
Industry: UNDEFINED
Site Status:
Transaction Date:
Inspection Date:

Site: ***MANAGEMENT BOARD SECRETARIAT***
ARKELL RESEARCH STATION ARKELL ROAD ARKELL ON

Database: ***OPCB***

Year: 2004
Site Number: 20292A033
Name Owner:
Additional Site Information:

Site: ***DUTCH MILL NURSERY LTD.***

Database:

R.R. #2, ARKELL ROAD GUELPH ON **PES**

Licence No:		***Operator Box:***	
Detail Licence No:		***Operator Class:***	
Licence Type Code:		***Operator No:***	
Licence Type:	Vendor	***Operator Type:***	
Licence Class:		***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Trade Name:		***Operator Region:***	
Post Office Box:		***Operator District:***	
Lot:		***Operator County:***	
Concession:		***Oper Phone Area Cd:***	
Region:		***Ext:***	
District:		***Oper Phone No:***	
County:		***Proponent Ext:***	

Site: ***Diodoro Investments Ltd. c/o Victoria Park Golf Club West***
Lot 5, Concession 8, City of Guelph, Wellington County CITY OF GUELPH ON

Database: ***PTTW***

EBR Registry No.:	IA03E0575
Ministry Ref. No.:	23024722
Notice Type:	Instrument Decision
Notice Date:	July 13, 2004
Proposal Date:	April 29, 2003
Year:	2003
Proponent Address:	1159 Victoria Road South, Guelph Ontario, N1L 1B3
Instrument Type:	(OWRA s. 34) - Permit to Take Water
Location Other:	

Location:

Lot 5, Concession 8, City of Guelph, Wellington County CITY OF GUELPH

Site: ***ONTARIO HYDRO***
LOT 5, MOTOR VEHICLE (OPERATING FLUID) ERIN TOWN ON

Database: ***SPL***

Ref No:	77068	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	10/2/1992	***Client Type:***	
Year:		***Sector Type:***	
Incident Cause:	PIPE/HOSE LEAK	***Source Type:***	
Incident Event:		***Nearest Watercourse:***	
Contaminant Code:		***Site Name:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site County/District:***	
Contaminant UN No 1:		***Site Postal Code:***	
Contaminant Qty:		***Site Region:***	
Environment Impact:	CONFIRMED	***Site Municipality:***	75405
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
Health/Env Conseq:		***Easting:***	
MOE Response:		***Site Geo Ref Accu:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Meth:***	
MOE Reported Dt:	10/2/1992	***Site Map Datum:***	
Dt Document Closed:			
Agency Involved:			
SAC Action Class:			
Incident Reason:	EQUIPMENT FAILURE		
Incident Summary:	ONTARIO HYDRO: 4 L HYDRAULIC OIL TO GRND DUETO BROKEN HOSE ON TRUCK.		

Site:

Database: ***WWIS***

lot 5 ON

Well ID:	6712643	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	9/14/1998
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2663
Casing Material:		***Form Version:***	1
Audit No:	192865	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	GUELPH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	005
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	DIV B
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10476476	***Elevation:***	
DP2BR:	46	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***Org CS:***	
Open Hole:		***North83:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01-SEP-98	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932658195
Layer:	6
Color:	6
General Color:	BROWN
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	65
Other Materials:	DARK-COLOURED
Mat3:	
Other Materials:	
Formation Top Depth:	105
Formation End Depth:	121
Formation End Depth UOM:	ft

Formation ID:	932658194
Layer:	5
Color:	6
General Color:	BROWN
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	

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

Formation ID: 932658192
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 40
Formation End Depth: 46
Formation End Depth UOM: ft

Formation ID: 932658191
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 3
Formation End Depth: 40
Formation End Depth UOM: ft

Formation ID: 932658190
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 3
Formation End Depth UOM: ft

Formation ID: 932658193
Layer: 4
Color: 6
General Color: BROWN
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 75
Other Materials: LIGHT-COLOURED
Mat3:
Other Materials:
Formation Top Depth: 46
Formation End Depth: 95
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933210891
Layer: 1
Plug From: 0
Plug To: 20

Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966712643
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11025046
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930776264
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

Casing ID: 930776265
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 121
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996712643
Pump Set At:
Static Level: 53
Final Level After Pumping: 93
Recommended Pump Depth: 100
Pumping Rate: 15
Flowing Rate:
Recommended Pump Rate: 15
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934352796
Test Type: Draw Down
Test Duration: 15
Test Level: 73
Test Level UOM: ft

Pump Test Detail ID: 934869633
Test Type: Draw Down
Test Duration: 45
Test Level: 93
Test Level UOM: ft

Pump Test Detail ID: 934617381
Test Type: Draw Down
Test Duration: 30
Test Level: 93
Test Level UOM: ft

Pump Test Detail ID: 935130681
Test Type: Draw Down
Test Duration: 60
Test Level: 93
Test Level UOM: ft

Water Details

Water ID: 933967102
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 115
Water Found Depth UOM: ft

Water ID: 933967103
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 121
Water Found Depth UOM: ft

Site:
lot 5 ON

Database:
WWIS

Well ID: 6712410
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 186158
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 1/9/1998
Selected Flag: Yes
Abandonment Rec:
Contractor: 2336
Form Version: 1
Owner:
Street Name:
County: WELLINGTON
Municipality: PUSLINCH TOWNSHIP
Site Info:
Lot: 005
Concession:
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10476243
DP2BR: 34
Spatial Status:
Code OB: r
Code OB Desc: Bedrock

Elevation:
Elevrc:
Zone: 17
East83:
Org CS:

Open Hole:
Cluster Kind:
Date Completed: 27-NOV-97
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 932657034
Layer: 3
Color: 6
General Color: BROWN
Mat1: 26
Most Common Material: ROCK
Mat2: 65
Other Materials: DARK-COLOURED
Mat3:
Other Materials:
Formation Top Depth: 34
Formation End Depth: 55
Formation End Depth UOM: ft

Formation ID: 932657032
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 15
Formation End Depth UOM: ft

Formation ID: 932657035
Layer: 4
Color: 2
General Color: GREY
Mat1: 26
Most Common Material: ROCK
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 55
Formation End Depth: 80
Formation End Depth UOM: ft

Formation ID: 932657033
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 15
Formation End Depth: 34

Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933210764
Layer: 1
Plug From: 0
Plug To: 25
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966712410
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11024813
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930775860
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 35
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930775861
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 80
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996712410
Pump Set At:
Static Level: 10
Final Level After Pumping: 50
Recommended Pump Depth: 70
Pumping Rate: 12
Flowing Rate:
Recommended Pump Rate: 0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method:
Pumping Duration HR: 1
Pumping Duration MIN: 0

Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934351766
Test Type: Draw Down
Test Duration: 15
Test Level: 28
Test Level UOM: ft

Pump Test Detail ID: 934616771
Test Type: Draw Down
Test Duration: 30
Test Level: 45
Test Level UOM: ft

Pump Test Detail ID: 935138833
Test Type: Draw Down
Test Duration: 60
Test Level: 50
Test Level UOM: ft

Pump Test Detail ID: 934869024
Test Type: Draw Down
Test Duration: 45
Test Level: 50
Test Level UOM: ft

Water Details

Water ID: 933966759
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 75
Water Found Depth UOM: ft

Site:
lot 5 con 8 ON

Database: ***WWIS***

Well ID: 6714390
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 247547
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: 2/28/2003
Selected Flag: Yes
Abandonment Rec:
Contractor: 2663
Form Version: 1
Owner:
Street Name:
County: WELLINGTON
Municipality: PUSLINCH TOWNSHIP
Site Info:
Lot: 005
Concession: 08
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10542235
DP2BR:
Spatial Status:

Elevation:
Elevrc:
Zone: 17

Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 22-JAN-03
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

East83:
Org CS:
North83:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 932921787
Layer: 2
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 98
Formation End Depth: 100
Formation End Depth UOM: ft

Formation ID: 932921786
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 98
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933240147
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966714390
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11090805
Casing No: 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID:	930779047
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	100
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pump Test ID:	996714390
Pump Set At:	
Static Level:	49
Final Level After Pumping:	68
Recommended Pump Depth:	80
Pumping Rate:	20
Flowing Rate:	
Recommended Pump Rate:	20
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	N

Draw Down & Recovery

Pump Test Detail ID:	934614157
Test Type:	Draw Down
Test Duration:	30
Test Level:	68
Test Level UOM:	ft

Pump Test Detail ID:	934350711
Test Type:	Draw Down
Test Duration:	15
Test Level:	67
Test Level UOM:	ft

Pump Test Detail ID:	935136232
Test Type:	Draw Down
Test Duration:	60
Test Level:	68
Test Level UOM:	ft

Pump Test Detail ID:	934875173
Test Type:	Draw Down
Test Duration:	45
Test Level:	68
Test Level UOM:	ft

Water Details

Water ID:	934036011
Layer:	1
Kind Code:	1

Kind:	FRESH
Water Found Depth:	100
Water Found Depth UOM:	ft

Site:
lot 5 ON

Database:
WWIS

Well ID:	6714208	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	9/9/2002
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2663
Casing Material:		***Form Version:***	1
Audit No:	247560	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	PUSLINCH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	005
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10536416	***Elevation:***	
DP2BR:	0	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***Org CS:***	
Open Hole:		***North83:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	20-AUG-02	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932902045
Layer:	1
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	265
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID: 966714208
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11084986
Casing No: 1
Comment:
Alt Name:

Results of Well Yield Testing

Pump Test ID: 996714208
Pump Set At:
Static Level: 72
Final Level After Pumping: 75
Recommended Pump Depth: 150
Pumping Rate: 25
Flowing Rate:
Recommended Pump Rate: 25
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934357835
Test Type: Draw Down
Test Duration: 15
Test Level: 75
Test Level UOM: ft

Pump Test Detail ID: 935135704
Test Type: Draw Down
Test Duration: 60
Test Level: 75
Test Level UOM: ft

Pump Test Detail ID: 934613630
Test Type: Draw Down
Test Duration: 30
Test Level: 75
Test Level UOM: ft

Pump Test Detail ID: 934874649
Test Type: Draw Down
Test Duration: 45
Test Level: 75
Test Level UOM: ft

Water Details

Water ID: 934029900
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 265
Water Found Depth UOM: ft

Site:
lot 5 ON

Database:
WWIS

Well ID:	6713453	***Data Entry Status:***	
Construction Date:		***Data Src:***	1
Primary Water Use:	Domestic	***Date Received:***	9/18/2000
Sec. Water Use:		***Selected Flag:***	Yes
Final Well Status:	Water Supply	***Abandonment Rec:***	
Water Type:		***Contractor:***	2663
Casing Material:		***Form Version:***	1
Audit No:	220622	***Owner:***	
Tag:		***Street Name:***	
Construction Method:		***County:***	WELLINGTON
Elevation (m):		***Municipality:***	GUELPH TOWNSHIP
Elevation Reliability:		***Site Info:***	
Depth to Bedrock:		***Lot:***	005
Well Depth:		***Concession:***	
Overburden/Bedrock:		***Concession Name:***	
Pump Rate:		***Easting NAD83:***	
Static Water Level:		***Northing NAD83:***	
Flowing (Y/N):		***Zone:***	
Flow Rate:		***UTM Reliability:***	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10477286	***Elevation:***	
DP2BR:	71	***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	r	***East83:***	
Code OB Desc:	Bedrock	***Org CS:***	
Open Hole:		***North83:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	24-AUG-00	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932662249
Layer:	4
Color:	6
General Color:	BROWN
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Other Materials:	
Mat3:	
Other Materials:	
Formation Top Depth:	100
Formation End Depth:	162
Formation End Depth UOM:	ft

Formation ID:	932662246
Layer:	1
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY
Mat2:	12

Other Materials: STONES
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 71
Formation End Depth UOM: ft

Formation ID: 932662248
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 72
Formation End Depth: 100
Formation End Depth UOM: ft

Formation ID: 932662247
Layer: 2
Color: 6
General Color: BROWN
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 71
Formation End Depth: 72
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933211425
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966713453
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11025856
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930777668
Layer: 1
Material: 1
Open Hole or Material: STEEL

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

Casing ID: 930777669
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996713453
Pump Set At:
Static Level: 90
Final Level After Pumping: 115
Recommended Pump Depth: 140
Pumping Rate: 8
Flowing Rate:
Recommended Pump Rate: 8
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN:
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934872407
Test Type: Draw Down
Test Duration: 45
Test Level: 100
Test Level UOM: ft

Pump Test Detail ID: 934620144
Test Type: Draw Down
Test Duration: 30
Test Level: 100
Test Level UOM: ft

Pump Test Detail ID: 934355578
Test Type: Draw Down
Test Duration: 15
Test Level: 95
Test Level UOM: ft

Pump Test Detail ID: 935133462
Test Type: Draw Down
Test Duration: 60
Test Level: 115
Test Level UOM: ft

Water Details

Water ID: 933968231
Layer: 1
Kind Code: 1

Kind: FRESH
Water Found Depth: 140
Water Found Depth UOM: ft

Water ID: 933968232
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 162
Water Found Depth UOM: ft

Appendix: Database Descriptions

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

Abandoned Aggregate Inventory: Provincial AAGR

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

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

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

Government Publication Date: Up to Sep 2017

Abandoned Mine Information System: Provincial AMIS

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

Government Publication Date: 1800-Nov 2016

Anderson's Waste Disposal Sites: Private ANDR

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

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Jan 31, 2018

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2014

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks: Provincial CFOT

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

Government Publication Date: Feb 28, 2017

Chemical Register: Private CHEM

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

Government Publication Date: 1999-Jan 31, 2018

Compressed Natural Gas Stations: Private CNG

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

Government Publication Date: Dec 2012 - Apr 2018

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

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

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

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

Government Publication Date: 1989-Apr 2018

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-Jul 31, 2018

Drill Hole Database: Provincial DRL

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

Government Publication Date: 1886-Nov 30, 2017

Dry Cleaning Facilities: Federal DRYCLEANERS

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

Government Publication Date: Jan 2004-Dec 2016

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-Jul 31, 2018

Environmental Registry: Provincial EBR

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

Government Publication Date: 1994-Jul 31, 2018

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-Jul 31, 2018

Environmental Effects Monitoring: Federal EEM

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

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

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

Government Publication Date: 1999-Feb 28, 2018

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

List of TSSA Expired Facilities: Provincial EXP

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

Government Publication Date: Feb 28, 2017

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-May 2018

Fisheries & Oceans Fuel Tanks: Federal FOFT

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

Government Publication Date: 1964-Sep 2017

Fuel Storage Tank: Provincial FST

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

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic: Provincial FSTH

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

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

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

Government Publication Date: 1986-December 31, 2017

Greenhouse Gas Emissions from Large Facilities: Federal GHG

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

Government Publication Date: 2013-Dec 2016

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

TSSA Incidents: Provincial INC

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

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario: Provincial LIMO

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

Government Publication Date: Dec 31, 2013

Canadian Mine Locations: Private MINE

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

Government Publication Date: 1998-2009*

Environmental Penalty Annual Report: Provincial MISA PENALTY

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2017

Mineral Occurrences: Provincial MNR

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

Government Publication Date: 1846-Jan 2018

National Analysis of Trends in Emergencies System (NATES): Federal NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 2016

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

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 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, 2018

National Energy Board Wells: Federal NEBW

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

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGW

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

Government Publication Date: 1988-April 30, 2018

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-May 2018

Inventory of PCB Storage Sites: Provincial OPCB

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

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

Orders: Provincial ORD

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

Government Publication Date: 1994-Jul 31, 2018

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: 1988-Mar 2018

TSSA Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills) made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors, and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of pipeline incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994-Jul 31, 2018

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-Apr 2018

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Jan 31, 2018

Scott's Manufacturing Directory: Private SCT

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-May 2018

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2016

Anderson's Storage Tanks: Private TANK

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

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

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

Government Publication Date: 1970-Aug 2017

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of tank variances in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

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

Government Publication Date: Oct 2011-Jul 31, 2018

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

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under 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: Dec 31, 2017

Definitions

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

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

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

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

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

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

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

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

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

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

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

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