



**West Side Employment Lands,
Waterloo ON**

FINAL - Phase I Environmental Site
Assessment

August 17, 2018

Prepared for:

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Executive Summary

Executive Summary

Site Description and Current Operations

Stantec Consulting Ltd. (Stantec) conducted a Phase I Environmental Site Assessment (Phase I ESA) of the properties located at 100 Wilmot Line, 960 Erb Street West, and 980 Erb Street West (herein referred to as the "Site"). The 'landlocked' portion of land located at 928 Erb Street West is surrounded by the Site on all sides but 928 Erb Street West is not part of the Site assessed during the Phase I ESA. The Phase I ESA was conducted for the City of Waterloo (the Client) for internal due diligence purposes. 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 neighbouring properties.

The Site consists of three properties with associated site buildings, driveways and landscaped grassed areas. The Site is situated north of the intersection of Wilmot Line and Erb Street West in Waterloo, Ontario. The Site is bounded by 250 Wilmot Line (vacant except for a construction office) and Columbia Street West to the north (beyond which are undeveloped properties for future residential property use), 50 Wilmot Line (an agricultural property with associated buildings), Wilmot Line to the west and southwest, (beyond which is 1074 Erb's Road to the west (an agricultural property)), 990 Erb Street West (industrial water pumping facility) to the south, Erb Street West to the southeast (beyond which is Waterloo Waste Management Centre), Platinum Drive to the southeast (beyond which is Costco Wholesale Corporation), and Hydro One Networks Inc. (HONI) Transmission Corridor to the east (beyond which are residential buildings).

Records Review

Based on the historical information gathered from aerial photographs, insurance records, city directories, and interviews for the Phase I ESA, the Site was occupied by undeveloped/agricultural land since at least 1930.

The property at 980 Erb Street West was developed with the construction of a residential building between 1964 and 1977. The residential building and the associated garage, situated on the 980 Erb Street West, was demolished between 2010 and 2012.

The golf course at 100 Wilmot Line has been present since at least 1992 with the Waterloo Golf Academy leasing the property at 100 Wilmot Line from the Client in 1995. The stormwater management pond, situated on the eastern portion of 100 Wilmot Line, was developed between 2015 and 2016.

An active waste disposal site, Waterloo Waste Management Centre (WWMC) at 925 Erb Street West, was identified neighbouring the Site situated in the southeastern direction. A methane gas control system was installed in 1993, a leachate collection system was installed in 1986, and groundwater and surface water monitoring has been completed at the WWMC since 1973. The general direction of groundwater flow at the WWMC is in a southeasterly to southerly direction. The property containing the landfill is situated approximately 25 m downgradient from the Site; however, the landfill itself or areas that would be considered to contain potentially contaminating activities are located greater than 200 m downgradient from the Site. Therefore based on the distance from the Site, the presence of an operating methane gas control system, leachate collection system, and the inferred groundwater flow direction, the WWMC was not considered to likely represent a potential environmental concern to the Site.

Site Visit/Interviews

A site visit was conducted on April 24, 2017. The following relevant observations were made:

- One single-walled steel above ground storage tank (AST) containing diesel was observed outside the south of the Maintenance Shed at 100 Wilmot Line. The AST had a manufacturing date of 2008 and a capacity of 1,360 litres (L). One single-walled steel AST containing gasoline was observed outside the south of the Maintenance Shed at 100 Wilmot Line. The AST had a manufacturing date of 2001 and a capacity of 1,360 L. No secondary containment was provided for the ASTs and the ground surface surrounding the ASTs was exposed soil and grassed surface. According to information provided by the Ontario Ministry of the Environment and Climate Change (MOECC), a spill of diesel occurred in October 2007 and significant staining was noted by the MOECC during an inspection on May 12, 2008. The

Executive Summary (continued)

Site Visit/Interviews (continued)

refueling activities associated with no secondary containment and the diesel spill in 2007 represents a potential environmental concern to the Site.

- A floor drain was situated in the central portion of the Maintenance Building, where observed maintenance and repairs of golf course equipment occurred. The observed associated staining in close proximity to the floor drain, which is reported to discharge to the west of the Maintenance Shed, represents a potential environmental concern to the Site.
- Based on the large quantities of containers ranging from 0.5 L to 200 L, observed storage practices and staining related to the assumed used motor or engine oil, the presence of these materials at the Site were considered to represent a potential environmental concern to the Site.
- Two stockpiles, approximately 20 cubic metres, consisting of gravel, concrete and asphalt were observed on the property at 980 Erb Street West. In addition, this property, formerly contained a residential house and therefore it is likely that quantities of fill materials were brought to the property related to backfilling operations. The presence of unknown quality of imported fill at 980 Erb Street West represents an environmental concern to the Site.
- A roof leak related to a skylight was reported in the Pro Shop at 100 Wilmot Line was reported to have been occurring since at least 2007. No visual evidence of mould growth was observed during the site visit; however, while based on the length of time the leak had been occurring mould growth was possible. It is Stantec's understanding that the Pro Shop was demolished between the time of the site visit on April 24, 2017 and June 27, 2018; therefore, potential mould issues are no longer relevant.

No other 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 potential environmental concerns were identified:

- Two fueling ASTs were present at 100 Wilmot Line with no secondary containment and a historical diesel spill was associated with the ASTs.
- The storage of used oil containers within the Maintenance Shed at 100 Wilmot Line with no secondary containment and associated staining.
- The presence of a floor drain, situated within the Maintenance Building at 100 Wilmot Line, with no associated oil water separator.
- The unknown quality of imported fill material at 980 Erb Street West.
-

Stantec recommends a Phase II ESA be completed at the Site in order to evaluate the soil and/or groundwater quality in the vicinity of the above-mentioned environmental concerns.

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.

Phase I Environmental Site Assessment

1.0 General Information

Client Information:

City of Waterloo
City Hall, 2nd Floor
100 Regina Street South
Waterloo, N2J 4P9

Project Information:

West Side Employment Lands
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Site Information:

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Site Visit Date:

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Report Date:

08/17/2018

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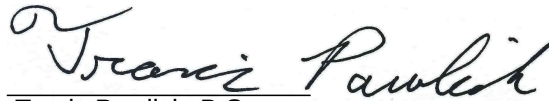
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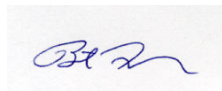
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The environmental site assessment and preparation of this report were completed in general accordance with the objectives, requirements or standards of the CSA Phase I Environmental Site Assessment Standard Z768-01 (R2016).

2.0 Introduction

2.1 Objectives

Stantec Consulting Ltd. (Stantec) conducted a Phase I Environmental Site Assessment (Phase I ESA) of the properties located at 100 Wilmot Line, 960 Erb Street West, and 980 Erb Street West (herein referred to as the "Site"). The 'landlocked' portion of land located at 928 Erb Street West is surrounded by the Site on all sides but 928 Erb Street West is not part of the Site assessed during the Phase I ESA. The Phase I ESA was conducted for the City of Waterloo (the Client) for internal due diligence purposes. 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 neighbouring properties.

Site plans are included in **Appendix A** and selected photographs of the Site are included in **Appendix B**.

2.2 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 Stantec's proposal dated January 25, 2017 and consisted of the following:

- Records review including, but not limited to, selected city directories, aerial photographs, fire insurance plans (if available), geological and topographic maps
- Purchase of a database report from EcoLog ERIS (ERIS) that consisted of a search of available databases within a 250 m radius of the boundary of the Site
- Request to Ontario Ministry of the Environment and Climate Change (MOECC) for documents related to various environmental concerns associated with the Site (e.g., spills, incident reports, etc.)
- 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 environmental databases and records
- Review of a previous environmental report completed for the Site
- Interviews with individuals 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 on-site buildings ("site buildings") 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 site buildings. This was a visual assessment only and not every area was assessed. No sampling or intrusive investigations were conducted.

The site visit was conducted by Mr. Travis Pawlick, B.Sc., of Stantec on April 24, 2017. 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. Interviews were carried out to obtain or confirm information on the historical operations and activities on the Site.

Stantec was accompanied by Joe Blundell, Assistant Manager of the Waterloo Golf Academy, at 100 Wilmot Line during the interior portion of the site visit. An interview was carried out with Mr. Blundell during the course of the site visit to obtain or confirm information on the current and former operations at the Site. Mr. Blundell has been associated with the Site since 1997. A separate interview was carried out with Al Hirschberger, Maintenance Manager, during the course of the site visit to obtain or confirm information on the current and former operations at the Site. Mr. Hirschberger has been associated with the Site since 2000.

2.0 Introduction (continued)

2.2 Scope of Work (continued)

Stantec was unaccompanied during the site visit at 960 Erb Street West and 980 Erb Street West. At the time of issuing this report, no interviews had been completed for the remaining properties.

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

2.3 Regulatory Framework

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 Records of Site Condition 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.

3.0 Records Review

3.1 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	2005, 2006, 2009, 2012, 2013 and 2016 - Google Earth Pro Images 2000, 2003, 2006, 2009, 2010, 2012, 2014, 2015 and 2016 - Region of Waterloo GIS Locator 1930, 1946 and 1955 - University of Waterloo Library, Geospatial Centre 1972 and 1982 - ERIS 1946, 1964, 1977, 1989 and 2006 - "Phase I and II Environmental Site Assessment, 928 Erb Street West, Waterloo, Ontario", dated March 12, 2010, completed by CH2M HILL for The City of Waterloo
Fire Insurance Plans	None available according to a search completed by Opta
City Directories	1947, 1952, 1957, 1962, 1967, 1972, 1977, 1982, 1987, 1992, 1997, 2002, 2007 and 2012 - Vernon's Kitchener and Waterloo, Ontario city directory search completed by ERIS for the Site and selected adjoining properties
Previous Environmental Reports	"Phase I and II Environmental Site Assessment, 928 Erb Street West, Waterloo, Ontario", dated March 12, 2010, completed by CH2M HILL for the City of Waterloo
Company Records	None provided
Geological and Geotechnical Reports	"Scoped Subwatershed Study Portions of Subwatersheds 307 and 314 Laurel Creek Watershed," dated May 12, 2004, completed by CH2M HILL for the City of Waterloo.
Regulatory Infractions	Requests were submitted to the MOECC'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 addresses of the Site and current/former tenants and owners of the Site. Responses were received dated April 10, April 18, April 19 and April 27, 2017.

3.0 Records Review (continued)

3.1 Information Sources (continued)

SOURCE	INFORMATION/CONTACT
Reportable Spill Occurrences	ERIS - Ontario Spills
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) MOECC Brownfields Environmental Site Registry
Hazardous Waste Generator Registration	ERIS - Ontario Regulation 347 Waste Generators Summary
PCB Storage Sites	ERIS - National PCB Inventory database, Ontario Inventory of PCB Storage Sites
Landfill Records	"Waste Disposal Site Inventory" (June 1991) ERIS - Waste Disposal Sites - MOE CA Inventory ERIS - Ontario Regulation 347 Waste Receivers Summary Region of Waterloo Waste Management Plan (April 2011) "Annual Progress Report Waterloo Landfill Site, January 1 to December 31, 2015," dated June 2016, Region of Waterloo Waste Management
Underground & Aboveground Storage Tanks	ERIS (various databases) Requests were submitted to the TSSA Fuel Safety Division for records of outstanding instructions, incident reports, fuel oil spills, contamination records, retail facilities or licensed underground storage tanks pertaining to the municipal addresses of the Site. Responses from the TSSA dated May 11, 2017 were received and are included in Appendix D.
Other Available Information	Ontario Geological Survey 1991, Quaternary Geology of Ontario; Southern Sheet, Map 2556, Scale 1:1,000,000 Ministry of Natural Resources and Forestry (MNRF), online "Make a Topographic Map" database, accessed April 11, 2017. Ontario Geological Survey 1991, Bedrock Geology of Ontario; Southern Sheet, Map 2544, Scale 1:1,000,000 Region of Waterloo, online GIS Locator, accessed April 20, 2017.

3.0 Records Review (continued)

3.1 Information Sources (continued)

SOURCE

INFORMATION/CONTACT

Other Available Information

Geowarehouse, online sales history information database, accessed April 20, 2017.

Water Well Records

ERIS - Water Well Information System

ERIS

An ERIS report consisted of a search of all available databases within a 250 m radius of the boundary of the Site. See Section 3.3 for further information. A copy of the report is included in Appendix D.

3.2 Previous Reports

The following previous environmental reports were provided to Stantec and reviewed as a source of background information:

"Phase I and II Environmental Site Assessment, 928 Erb Street West, Waterloo, Ontario", dated March 12, 2010, completed by CH2M HILL for the City of Waterloo

- CH2M HILL completed a Phase I and II ESA at the property identified as the Hergott Farm [Note: this is the adjoining property that is 'landlocked' and surrounded on all sides by the Site]
- CH2M HILL identified potential contamination from fuel storage and dispensing from ASTs, the storage of electronic waste and material storage (such as tires) as potential areas of concern.
- CH2M HILL identified the storage, use, and application of pesticides to the orchard areas. CH2M HILL state the orchard areas may have impacted shallow soils; however, the orchard areas are not within the property boundaries, and the pesticides were stored within the building.
- CH2M HILL identified the floor drain in the cider mill has a potential concern in the event substances or chemicals may have been discharged or spilled.
- CH2M HILL identified potential contamination during maintenance activities in the workshop may have occurred in the event of any lubricants or fuel being spilled that may have migrated into the pit.
- CH2M HILL completed a field program that involved the installation of four monitoring wells to a depth of 4.57 m.
- CH2M HILL stated that groundwater flow direction is inferred towards the north at the assessed property.
- CH2M HILL compared soil and groundwater analytical results to the 2004 MOECC Table 2 full depth generic site condition standards (SCS) in a potable ground water condition for the current agricultural property use and for commercial / industrial property use, future intended use, which was considered applicable to the assessed property.
- CH2M HILL stated that all soil and groundwater analytical results were below the SCS.
- CH2M HILL recommended the following: collecting surficial samples in areas of potential concern once the snow cover had melted, a second round of groundwater sampling, a designated substance survey for the assessed property, the decommissioning of the monitoring wells, and the completion of a soil management plan.
- Stantec compared the soil and groundwater analytical results to the current 2011 MOECC Table 2 full depth generic SCS in a potable ground water condition for agricultural property use and commercial / industrial property use which was considered applicable to the Site. All soil and groundwater analytical results were below the SCS with the exception of select volatile organic compounds for soil which the previous 2004 Table 2 SCS detection limits were greater than the current 2011 Table 2 SCS. The previously identified potential areas of concern at 928 Erb Street West do not likely represent a potential environmental concern to the Site.

"Scoped Subwatershed Study Portions of Subwatersheds 307 and 314 Laurel Creek Watershed," dated May 12, 2004, completed by CH2M HILL for the City of Waterloo.

3.0 Records Review (continued)

3.2 Previous Reports (continued)

- Subwatershed 314 is comprised of land located at the southwest corner of the City of Waterloo, west of Erbsville Road, near Erb Street and the Wilmot Line. The study area will likely be designated for industrial/commercial development based on information provided by the City of Waterloo. The study area is comprised of properties that are owned by the City of Waterloo and private interests.
- The study area lands comprise approximately 54 hectares and current land uses include agriculture, a golf course (leased from the City of Waterloo), and two residential properties. A Hydro One Networks Inc. (HONI) Transmission Corridor crosses the eastern portion of the lands. A high pressure gas line parallels the hydro corridor along its east side. The property is bounded to the west by Wilmot Line and to the south by Erb Street West. The Greyerbiehl property occupies the lands to the north of the study area. The Clair Hills subdivision development is located to the east of the study area.
- CH2M HILL drilled ten shallow boreholes up to 6 metres in depth at selected locations within the study area.
- CH2M HILL completed four of the shallow boreholes as monitoring well installations, ranging in depth from 3.96 m below ground surface (BGS) to 4.57 m BGS.
- CH2M HILL stated the general inferred direction of the regional groundwater flow in this area is in a southeast direction.
- CH2M HILL stated the soil stratigraphy encountered during this study was generally consistent with the geologic profile previously identified in Subwatershed 314 and neighbouring properties. The shallow soil deposit is predominantly a clayey silt till, interpreted to be the Maryhill Till, which was found consistently across the study area. The geologic profile of the study area typically consisted of a nominal topsoil layer, a sandy silt to silty sand layer and clayey silt till. Trace deposits of peat were found at two of the borehole locations. A zone of dry, dense sand was encountered to the depth of the borehole at BH04-6 on the west side of the study area which was overlain by a thin layer of the Maryhill Till.
- CH2M HILL stated that shallow groundwater flow in the area of Subwatersheds 307 is not well defined due to the lack of closely spaced monitoring wells. There is insufficient information at this to clearly define a groundwater flow direction.

No other reports were provided to Stantec for review.

3.3 Regulatory Information

Available environmental databases and records were searched to determine if the Site, adjacent or neighboring properties were listed. The databases and search results are presented below.

MOECC Freedom of Information and Privacy Protection Office

Requests were submitted to the MOECC 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 addresses of the Site and current/former tenant.

A confirmation was received dated April 18, 2017, stating that no records were located responsive to the request for 980 Erb Street West. A copy of the MOECC correspondence is provided in **Appendix D**.

A confirmation was received dated April 19, 2017, stating that the search produced a waste generation record for Rice Commercial Group Limited for oil skimming and sludges at 930 Erb Street West. This record was also listed in the ERIS report. A copy of the MOECC correspondence is provided in **Appendix D**.

A confirmation was received dated April 27, 2017, stating that the search produced a waste generation records for Waterloo Golf Academy for waste oil and lubricants and petroleum distillates at 100 Wilmot Line. This record was also listed in the ERIS report. An occurrence report in July 20, 1995 related to the burning of waste material at the property. An incident report in July 24, 2014, related to the storage of petroleum distillates and waste oils and lubricants beyond the maximum storage limit for hazardous waste and a Hazardous Waste Information Network (HWIN) account closure. The incident report stated no further abatement response required. An incident

3.0 Records Review (continued)

3.3 Regulatory Information (continued)

report in May 20, 2008, related to a Permit to Take Water (PTTW) inspection determined that no PTTW had been obtained, bacterial sample results related to monthly sampling was not available, and the lack of separation distance from a well from sources of pollution. Issues were addressed and no further action required was stated in the report. An incident report on May 20, 2008, related to a Pesticide Inspection resulted in identifying the requirement of a check valve to prevent backflow, proper submission of waste manifesting, spill reporting requirements, and a spill of diesel requires proper clean-up and disposal of the contaminated soil and verification sampling to confirm clean-up. During an inspection on May 12, 2008, the MOECC identified a diesel spill had occurred after the pump had been cut to the diesel AST. The MOECC noted that staining was observed and that the spill reportedly occurred in October of 2007. The incident report states that a written response was received on June 10, 2008 and addresses all items and no further action is required. However this former spill represents a potential environmental concern at the Site. A copy of the MOECC correspondence is provided in **Appendix D**.

Technical Standards and Safety Authority (TSSA)

Requests were submitted to the TSSA included a search related to records of outstanding instructions, incident reports, fuel oil spills, contamination records, retail facilities or licensed underground storage tanks were found 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.

Responses from the TSSA dated May 11, 2017 indicated that no records of outstanding instructions, incident reports, fuel oil spills, contamination records, retail facilities or licensed underground storage tanks were found pertaining to 930 Erb Street West, 980 Erb Street West, and 100 Wilmot Line. 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.

A copy of the TSSA responses are 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 a former coal gasification property.

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 a former coal tar industrial property.

MOE Waste Disposal Site Inventory (dated June 1991)

Stantec searched the MOE Waste Disposal Site Inventory for active and closed waste disposal sites within 1 km of the Site. One active waste disposal site was identified (based on the coordinates provided in the inventory) neighbouring the Site situated in the southeastern direction. The waste disposal site (A 140301) was classified as a domestic and commercial disposal site. The Region of Waterloo (the Region) website identifies this waste disposal site as the Waterloo Waste Management Centre, at 925 Erb Street West, Waterloo, Ontario.

According to the Region of Waterloo Waste Management Plan, dated April 2011, a methane gas control system was installed in 1993 and a leachate collection system was installed in 1986 at the Waterloo Waste Management Centre (WWMC).

Based on the Annual Progress Report Waterloo Landfill Site January 1 to December 31, 2015, the Region has completed groundwater and surface water monitoring at the WWMC since 1973. A groundwater extraction system was installed in 2001 related to the southeastern corner of the WWMC to prevent further egress to downgradient areas. The general direction of groundwater flow at the WWMC is in a southeasterly to southerly direction.

The property containing the landfill is situated approximately 25 m downgradient from the Site; however, the landfill itself or areas that would be considered to contain potentially contaminating activities are located greater

3.0 Records Review (continued)

3.3 Regulatory Information (continued)

than 200 m downgradient from the Site. Therefore based on the distance from the Site, the presence of an operating methane gas control system, leachate collection system, a groundwater extraction system, and the inferred groundwater flow direction, the WWMC was not considered to likely represent a potential environmental concern to the Site.

No other properties within 1 km of the Site were listed as active or closed landfill facilities in the MOE database.

HWIN Registered Generator List

The ERIS report indicated that the Site and some neighbouring properties were registered with the MOECC for the generation of various hazardous wastes. These are discussed in the ERIS summary below and in Section 5.8.

Ontario Inventory of PCB Storage Sites and National PCB Inventory

A search of the PCB storage sites databases indicates that the Site was not listed as a PCB storage site.

ERIS

An ERIS report documented a search of databases within 250 m radius of the property boundary of the Site. A complete copy of the report is included in **Appendix D**. The following is a summary of pertinent information obtained from the ERIS report.

100 Wilmot Line (the Site)

The following is a summary of the records associated with the Site:

- The property, identified as GolfNorth Management Corp. Waterloo Golf Academy and Waterloo Golf Academy, was listed as a waste generator of at least one of the following from 1997 to 2016: petroleum distillates, waste oils and lubricants, and waste crankcase oils and lubricants.
- The property, identified as Waterloo Golf Academy, was listed as being issued a Certificate of Approval related to municipal sewage.

Summarized below are the pertinent ERIS records for the neighbouring properties:

928 Erb Street West (adjoining property immediately adjacent and surrounded by the Site)

- The property, identified as Hergott Cider Mill, was listed in Scott's Manufacturing Directory database since 1929 as a textile product mill, food preparations, food manufacturing, leather and allied product manufacturing, and other listings provided in more detail in **Appendix D**.
- Based on information from CH2M Phase I and II ESA Report, historical activities at this property were not considered to represent a potential environmental concern to the Site.

930 Erb Street West (approximately 220 m east of the Site)

- The property, identified as Costco Wholesale Canada Ltd., was listed in various records as a gasoline service station. Database records indicated that underground storage tanks (UST) were present at the property since a least 2016.
- Based on the inferred groundwater flow direction, distance from the Site, and the recent installation of USTs, activities at this property were not considered to represent a potential environmental concern to the Site.

930 Erb Street (approximately 220 m east of the Site)

- The property, identified as Rice Commercial Group Limited, was listed as a waste generator of at least one of the following in 2015: waste oils/sludges (petroleum based).
- Based on the inferred groundwater flow direction and distance from the Site, historical activities at this property were not considered to represent a potential environmental concern to the Site.

990 Erb Street West (adjoining property immediately adjacent to the south of the Site)

- On June 26, 2009, it was reported that 257.4 cubic metres of chlorinated water was released to the storm sewer. The release of chlorinated water is not expected to represent an environmental concern to the Site.

3.0 Records Review (continued)

3.3 Regulatory Information (continued)

243 Buttonbush Street (approximately 110 m northwest of the Site)

- On August 8, 2016 and August 15, 2016, it was reported that a natural gas pipeline was damaged. Based on the approximate distance from the Site and type of material in the pipeline (i.e., natural gas - methane), the damaged pipeline is not expected to represent an environmental concern to the Site.

249 Buttonbush Street (approximately 110 m northwest of the Site)

- On October 22, 2013 and October 28, 2013, it was reported that a natural gas pipeline was damaged. Based on the approximate distance from the Site and type of material in the pipeline (i.e., natural gas - methane), the damaged pipeline is not expected to represent an environmental concern to the Site.

1001 Erb Street West and 1001 Erb's Road (approximately 100 m south of the Site)

- The property (identified as Toromont Energy Ltd., University of Waterloo, and the Regional Municipality of Waterloo) was listed as a waste generator of at least one of the following from 1999 to 2016: aliphatic solvents and residues, petroleum distillates, waste crankcase oils and lubricants, light fuels, oil skimming and sludges, alkaline solutions, waste oil/sludges (petroleum based) and organic acids.
- Based on the inferred groundwater flow direction and the physical operations of the property (approximately 600 m south of the Site), historical activities and waste generation at this property were not considered to represent a potential environmental concern to the Site.

Erb Street West (immediately adjacent to the southeast of the Site)

- The property, identified as Waterloo Landfill Site, was listed as a waste disposal site since 1973.
- As described in the discussion of the review of the MOECC Waste Disposal Site Inventory above, the active waste disposal facility was not considered to represent a potential environmental concern to the Site.

628 Montpellier Drive (approximately 220 m northeast of the Site)

- On March 11, 2015 and March 13, 2015, it was reported that a natural gas pipeline was damaged. Based on the approximate distance from the Site and type of material in the pipeline (i.e., natural gas - methane), the damaged pipeline is not expected to represent an environmental concern to the Site.

Water Well Information System

24 water well records were identified within 250 m of the Site. According to the ERIS report, the records were for an abandoned well, test hole and water supply wells installed from 1995 to 2015. Further details are provided in **Appendix D**.

3.4 Physical Setting

3.4.1 Surficial Geology

Based on an available surficial geology map, Ontario Geological Survey Map 2556, the native surficial soils of the Site consist of Maryhill Till consisting of predominately of silty clay to clay matrix, moderate to high matrix carbonate content, clast poor.

24 water well record was identified in the ERIS report for the Site and the surrounding properties. The well records identified clay, gravel and sand overburden to a depth of 88.4 m BGS.

3.4.2 Surface Water Drainage

The surfaces of the Site consist of site buildings, asphalt and gravel driveways, landscaped areas and vegetated areas. Stormwater is anticipated to drain both to the roadside ditches, which are assumed to be connected to the municipal stormwater sewer system, and by infiltration and/or overland flow to adjacent/neighbouring lands. Roadside ditches were observed along Wilmot Line to the west and southwest of the Site and along Erb Street West to the south of the Site. Stormwater is also anticipated to drain towards the stormwater management pond situated on the eastern portion of 100 Wilmot Line and to drain towards the ponds situated on the western and northwestern portion of 100 Wilmot Line.

3.0 Records Review (continued)

3.4 Physical Setting (continued)

3.4.2 Surface Water Drainage (continued)

According to the 2004 CH2M HILL Scoped Subwatershed Study report, surface water flow and draining within Subwatershed 307 of the study area is in a westerly direction into Wilmot Township. Surface water flow and draining in Subwatershed 314 of the study area is north and east towards intermittent tributaries of Clair Creek. Subwatershed 307 and Subwatershed 314 comprise a portion of the Site.

3.4.3 Topography and Regional Drainage

Based on observed site topography, information accessed from the MNRF online mapping, and Region of Waterloo online GIS site information, regional surface drainage (and anticipated shallow groundwater flow direction) is expected to flow to the south toward Alder Creek, approximately 1.3 km south of the Site.

The Region of Waterloo online GIS site information identified two municipal water supply wells approximately 1.0 km to the southwest of the Site and 1.1 km to the west of the Site. The southwestern boundary of the Site is situated within a Wellhead Protection Sensitivity Area 7 which indicates a low vulnerability area found outside of the two year, but within the ten year time of travel to a municipal drinking water supply well. The remainder of the Site is situated within a Wellhead Protection Sensitivity Area 8 which delineates the area outside of the ten year time of travel to the limit of the total land area contributing water to a municipal drinking water supply well.

Based on the configuration of the Wellhead Protection Sensitivity Areas, it is presumed that the groundwater flow direction is in the southwestern direction of the Site. This is consistent with the inferred groundwater flow direction identified in the 2004 CH2M HILL Scoped Subwatershed Study report.

The Site topography is relatively at grade with the adjacent properties with the adjoining roadways at a slightly lower elevation. 100 Wilmot Line has a variable hummocky topography (in the vicinity of the golf course).

3.4.4 Bedrock Geology

Based on an available bedrock geology map, Ontario Geological Survey Map 2544, bedrock in the area of the Site consists of the Upper Silurian bedrock of the Salina Formation which includes limestone, dolostone, shale, sandstone, gypsum and salt.

One water well record within 250 m of the Site identified the bedrock as limestone at a depth of 126.8 m BGS.

4.0 Site Description

4.1 Property Information

The Site consists of three properties with associated site buildings, driveways and landscaped grassed areas. The Site is situated north of the intersection of Wilmot Line and Erb Street West in Waterloo, Ontario as illustrated in **Figure 1** and **Figure 2 (Appendix A)**. The Site consists of three properties with associated site buildings, driveways and landscaped grassed areas. The Site is situated north of the intersection of Wilmot Line and Erb Street West in Waterloo, Ontario. The Site is bounded by 250 Wilmot Line (vacant except for a construction office) and Columbia Street West to the north (beyond which are undeveloped properties for future residential property use), 50 Wilmot Line (an agricultural property with associated buildings), Wilmot Line to the west and southwest, (beyond which is 1074 Erb's Road to the west (an agricultural property)), 990 Erb Street West (industrial water pumping facility) to the south, Erb Street West to the southeast (beyond which is Waterloo Waste Management Centre), Platinum Drive to the southeast (beyond which is Costco Wholesale Corporation), and a HONI Transmission Corridor to the east (beyond which are residential buildings).

The Site layout is presented in **Figure 3 (Appendix A)**. A parcel register search was completed by ERIS and relevant information from the parcel register is outlined below and included in **Appendix D**.

100 Wilmot Line

Current Site Owner: The Corporation of the City of Waterloo

Legal Description: PT LT 41 GERMAN COMPANY TRACT CITY OF WATERLOO PTS 10, 11, 58R6857, SAVE & EXCEPT PTS 8, 9, 10, 11, 12 & 29 ON 58R-18321 CITY OF WATERLOO

Property Area: 315,351 sq. m.

960 Erb Street West

Current Site Owner: The Corporation of the City of Waterloo

Legal Description: PT. LOT 41 GERMAN COMPANY TRACT, BEING PTS. 1, 22, 23 ON 58R-18321, SAVE & EXCEPT PT. 1 ON 58R-18807 TOGETHER WITH AN EASEMENT OVER PT. 5 ON 58R-6857 AS IN 1060942 CITY OF WATERLOO

Property Area: 85,709 sq. m.

980 Erb Street West

Current Site Owner: The Corporation of the City of Waterloo

Legal Description: PT LT 41 GERMAN COMPANY TRACT CITY OF WATERLOO PT 8, 58R6857; WATERLOO

Property Area: 4,614 sq. m.

4.2 On-Site Buildings and Structures

The following table provides general details for the site buildings for each property at the time of the site visit:

Building ID:	# of Levels:	Basement:	Area:	Year Built:	Building Use:	General Construction:
Pro Shop (100 Wilmot Line)	One	No	Approx. 90 sq. m.	~ 1992	Office, Pro Shop, and Restaurant.	Steel, concrete, wood siding, slab-on-grade.
Maintenance Building (100 Wilmot Line)	One	No	Approx. 50 sq. m.	~ 1992	Office, storage, maintenance, repairs and servicing related to the golf course.	Concrete, steel siding, slab-on-grade.
Maintenance Shed (100 Wilmot Line)	One	No	Approx. 35 sq. m.	~ 1992	Chemical, motor oil and equipment storage.	Wood, concrete.
Driving Range Shed (100 Wilmot Line)	One	No	Approx. 20 sq. m.	~ 1992	Storage of golf clubs and balls. Equipment related to the distribution and cleaning of golf balls.	Wood siding, slab-on-grade.

4.0 Site Description (continued)

4.2 On-Site Buildings and Structures (continued)

Building ID:	# of Levels:	Basement:	Area:	Year Built:	Building Use:	General Construction:
Pump House Shed (100 Wilmot Line)	One	No	Approx. 15 sq. m.	~ 1992	Pumping station to supply water to the irrigation system for the golf course.	Concrete, steel siding, slab-on-grade.

4.3 Historical Land Use

Historical land use for the Site was determined through historical records listed in Section 3.1. A summary of the historical information is presented below:

Period/Date:	Land Use:
1930 to mid 1960s	A review of the aerial photographs indicates the Site was undeveloped/agricultural property since at least 1930.
Mid 1960s to the mid 1990s	A review of the aerial photographs indicates the property at 980 Erb Street West was developed with the construction of a residential building between 1964 and 1977. A review of the city directories identified a residential tenant at 980 Erb Street West from 1997 to 2007
Mid 1990s to present	According to the site contacts, the Waterloo Golf Academy at 100 Wilmot Line has been present since at least 1992. According to the parcel registry completed by ERIS, the Waterloo Golf Academy has leased the land at 100 Wilmot Line from the Client in 1995. A review of the aerial photographs indicates the golf course at 100 Wilmot Line has been present since at least 2000. A review of the aerial photographs indicates that the stormwater management pond, situated on the eastern portion of 100 Wilmot Line, was developed between 2015 and 2016. A review of the aerial photographs indicates that the residential house and associated garage, situated on the 980 Erb Street West, was demolished between 2010 and 2012. The property has remained undeveloped at the time of the site visit.

5.0 Site Visit Findings

5.1 Current Site Operations

The Site is currently occupied by a golf course, driving range, mini-putt course, associated maintenance and storage buildings, and agricultural land at 100 Wilmot Line; agricultural property at the property identified as 960 Erb St West; and undeveloped/vacant property at 980 Erb Street West.

5.2 Waste Generation and Storage

5.2.1 Solid and Liquid Wastes

Non-hazardous solid waste is stored in garbage and recycle bins situated south of the parking lot on the property at 100 Wilmot Line. The generated non-hazardous waste is removed from the property at 100 Wilmot Line by a private contracted waste hauler (Progressive Waste Solutions) on a scheduled basis. Used kitchen oil is stored in a plastic container and used oil related to maintenance repairs is stored in a metal container situated southwest of the maintenance shed at 100 Wilmot Line. The used oil is removed from the property at 100 Wilmot Line by a private contracted waste hauler on a scheduled basis.

No other hazardous waste generation or storage was observed during the site visit or identified according to the Site contacts related to the assessed properties.

No wastewater discharges other than septic wastewater were identified to be produced at 100 Wilmot Line at the time of the site visit. The Site contacts were not aware of any wastewater discharges other than septic wastewater and stormwater runoff.

No other wastewater discharges were identified to be produced on the Site at the time of the site visit related to the remaining assessed properties.

5.2.2 Drains, Sumps, Septic Systems and Oil Water Separators

The site contacts identified or reported a septic system with associated septic tanks at 100 Wilmot Line. The septic system was identified at the Site and reported to be situated southwest of the Pro Shop in the grassed landscaped area. The septic system collects the sanitary wastewater generated from the Pro Shop and the Maintenance Building.

Floor drains were observed within the Driving Range Shed and were observed to discharge to the south onto the asphalt sidewalk. Floor drains were observed within the Pro Shop and reported to be connected to the septic system. Floor drains were observed within the Maintenance Building and were reported to discharge west of the Maintenance Shed. The floor drain was situated in the central portion of the Maintenance Building, where observed maintenance and repairs of golf course equipment occurred. The concrete floor within the Maintenance Building had staining associated with recent spills or leaks related to maintenance of the golf course equipment. No oil water interceptors or separators were identified or reported on the property at 100 Wilmot Line.

The observed associated staining in close proximity to the floor drain, which is reported to discharge to the west of the Maintenance Shed, represents a potential environmental concern to the Site.

No other drains, sumps, or septic systems were identified or reported at the Site for the remaining assessed properties.

5.2.3 Air Discharges and Odours

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

5.0 Site Visit Findings (continued)

5.3 Fuel and Chemical Storage

5.3.1 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.

5.3.2 Aboveground Storage Tanks (ASTs)

One single-walled steel AST containing diesel was observed outside the south of the Maintenance Shed at 100 Wilmot Line. The AST had a manufacturing date of 2008 and a capacity of 1,360 litres (L). One single-walled steel AST containing gasoline was observed outside the south of the Maintenance Shed at 100 Wilmot Line. The AST had a manufacturing date of 2001 and a capacity of 1,360 L.

According to the site contacts, the ASTs are used for refueling equipment related to the golf course. No secondary containment was provided for the ASTs and the ground surface surrounding the AST was exposed soil and grassed surface. A reported spill related to the ASTs was identified in Section 3.3 and is provided in more detail in **Appendix D**. The presence of fueling ASTs with no secondary containment and a historical spill represents a potential environmental concern to the Site.

No other chemical or fuel ASTs were observed or reported to be present at the Site for the remaining assessed properties.

5.3.3 Other Storage Containers

Various domestic cleaning chemicals were observed at the Site related to the property at 100 Wilmot Line.

Jerry cans containing gasoline and diesel were observed on the floor and shelves in the Maintenance Building and Maintenance Shed at 100 Wilmot Line. No staining was observed on the floors in the area of the stored products.

Containers labeled as engine oil in 20 L to 200 L containers were observed on the floor of the Maintenance Shed at 100 Wilmot Line. The site contacts were not aware of the age or the contents of the containers but assumed the containers contained used engine or motor oil. Staining was observed on the metal floor in the area of the stored products.

0.5 L to 20 L containers of motor oil, transmission fluid, engine oil, hydraulic fluid, anti-freeze, paints, varnishes, lubricants, degreasers and insect repellent were observed on the concrete floors, shelves and in cabinets in the Maintenance Building at 100 Wilmot Line. No staining was observed on the concrete floors in the area of the stored products.

Fertilizer, insecticides, pesticides and herbicides in various sizes and containers were observed on shelves and the floor in the Maintenance Shed at 100 Wilmot Line. Empty containers associated with the fertilizer, insecticides, pesticides and herbicides products were observed to be stored on the ground on the exterior surface of the Maintenance Shed at 100 Wilmot Line.

Based on the observed staining related to the assumed used motor or engine oil in the Maintenance Shed, the staining was considered to represent a potential environmental concern to the Site.

No further chemical storage was observed or identified at the Site for the remaining properties.

5.0 Site Visit Findings (continued)

5.4 Building Systems/Equipment

5.4.1 Heating and Cooling Systems

The Pro Shop at 100 Wilmot Line is provided with heating and cooling via natural gas-fired ground mounted heating, ventilating and air conditioning (HVAC) units. The Maintenance Building at 100 Wilmot Line is only provided with heat via a natural gas-fired heating unit.

The Driving Range Shed, Maintenance Shed and Pump House Shed at 100 Wilmot Line are not provided with heating or cooling.

5.4.2 Hydraulic Equipment

No hydraulic equipment related to building systems was observed or reported at the Site.

5.5 Exterior Site Observations

5.5.1 Surface Features

The surfaces of the Site consist mainly of landscaped grassed areas, exposed soil associated with agricultural fields, asphalt or gravel driveways, and associated site buildings. Two ponds situated in the northwestern portion and western portion of the property at 100 Wilmot Line were observed during the site visit.

A stormwater management pond was observed on the eastern portion of 100 Wilmot Line. Associated stockpiled soil was observed south and east of 928 Erb Street West related to the development of the stormwater management pond.

Standing water was observed within the adjacent roadside ditch system along Erb Street West. No evidence of sheen and/or odour was observed on the standing water.

No other stained surficial materials or stressed vegetation was observed on the Site. No other watercourses, pits, or lagoons were identified on the Site.

5.5.2 Fill Materials

During the site visit at 100 Wilmot Line, varying topography associated with the development of the golf course was observed. In addition, there was a mound of soil to the west of the stormwater management pond and situated on the eastern portion of the Site that was associated with the excavation of the stormwater management pond. The site contacts were not aware of any imported fill material brought onto the property for the development of the golf course.

The property at the 960 Erb Street West generally appears to be at grade with the adjacent properties to the north, south and west. The property at 930 Erb Street West appears to be a lower elevation than the 960 Erb Street West property. After a review of the historical property use associated with the 960 Erb Street West property, it is unlikely that significant quantities of fill materials were brought onto the property.

The property at 980 Erb Street generally appears to be at grade with the adjacent properties to the north, east, south and west. Two stockpiles, approximately 20 cubic meters, consisting of gravel, concrete and asphalt were observed on the property. In addition, based on the historical review of the property, a former residential house had been situated on the property. Therefore, it is likely that quantities of fill materials were brought onto the property related to backfilling operations.

The presence of imported fill material of unknown quality at 980 Erb Street represents a potential environmental concern to the Site at this time.

5.0 Site Visit Findings (continued)

5.5 Exterior Site Observations (continued)

5.5.3 Wells

One existing water supply well was identified and reported on the Site situated south of the Driving Range Shed at 100 Wilmot Line during the site visit. According to ERIS, the water supply well was installed on June 5, 1997 to a depth to 92.0 m BGS.

No other abandoned or existing (water, oil, gas or disposal) wells were identified or reported on the Site.

5.6 Hazardous Building Materials

5.6.1 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 ACMs. Based on these requirements, it is recommended that an assessment to identify the locations of known or suspected ACMs be undertaken at the subject facility. Should friable or non-friable ACMs be identified or presumed to be present, an AMP 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 Ontario Regulation 278/05.

Based on the age of the site buildings, friable ACMs are not expected to be present at the Site and no evidence of non-friable ACMs was observed.

5.6.2 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.

No transformers were observed or reported on the Site. The site building utilizes fluorescent light fixtures. However, PCB-containing ballasts are not expected based on the age of the site buildings.

As the remaining portion of the Site is undeveloped, no electrical equipment with the potential to contain PCBs was identified on the Site.

5.0 Site Visit Findings (continued)

5.6 Hazardous Building Materials (continued)

5.6.3 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).

The site contacts were unaware of the presence of lead-based products. Based on the age of the site buildings, it is unlikely that lead-based products are present at the Site.

As the remaining portion of the Site is undeveloped, no lead-based materials were identified on the Site.

5.6.4 Urea Formaldehyde Foam Insulation (UFFI)

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.

The site contacts were unaware of the presence of UFFI. Based on the age of the site buildings, it is unlikely that UFFI is on Site and no evidence of the application of UFFI was observed during the site visit.

5.6.5 Ozone-Depleting Substances (ODSs)

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

Sources of ODSs on Site are limited to minor quantities of refrigerant in HVAC equipment.

5.7 Special Attention Items

5.7.1 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.

Based on the geology of the area and construction of the Site building (i.e. no basement levels, concrete slab-on-grade floor and commercial ventilation equipment), radon gas accumulation is not expected to be a significant environmental concern at the Site.

There are insufficient existing data available to make an accurate assessment of the potential for radon gas issues at this Site. Given the underlying geology and the assumed method of construction, however, it is anticipated that radon gas issues would not be significant at this location. Such conditions would have to be determined by the completion of a study which is beyond the scope of work of this project.

5.7.2 Microbial Contamination (Mould) and Indoor Air Quality

The growth of mould 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 mould and mould spores in the indoor environment. The way to control mould is to control moisture.

At the time of the site visit, a roof leak related to the skylight was reported by the site contacts in the Pro Shop at 100 Wilmot Line. The roof leaks have been occurring since at least 2007.

5.0 Site Visit Findings (continued)

5.7 Special Attention Items (continued)

5.7.2 Microbial Contamination (Mould) and Indoor Air Quality (continued)

No visual evidence of suspected mould growth was observed in the accessed areas of the site buildings at the time of the site visit; however, based on the length of time the leak has been occurring mould growth is possible.

It should be noted that the Client had indicated that Pro Shop has been reportedly demolished between the time of the site visit on April 24, 2017 and June 27, 2018; therefore, potential mould issues are no longer relevant.

5.7.3 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.

The Site is located adjacent to a high-voltage transmission line situated to the east of the Site.

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

5.7.4 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/or vibration were identified to be present on or adjacent to the Site at the time of the site visit.

5.8 Neighbouring 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.

Direction From Site:	Relation to Property:	Current Use:	Across What
North	Neighbouring/Adjoining	Future Residential	Property Line and Columbia Street West
Occupant Name:		Address:	
Activa Holdings Inc.		Various	
Current Activities:			
Currently occupied by developed land for future residential property use, including a construction office at 250 Wilmot Line.			
Historical Activities			
1930 to 2010 - Agricultural/Undeveloped			
A review of the aerial photographs indicated this property was occupied by agricultural/undeveloped land.			
2010 to Present - Residential			
A review of the aerial photographs indicated this property was developed between 2010 and 2012 and has been occupied since the initial development including a construction office at 250 Wilmot Line.			
Potential Environmental Concerns:			
No current or historical tenants, activities, or operations were identified on the north neighbouring property that would be considered a potential environmental concern to the Site.			

5.0 Site Visit Findings (continued)

5.8 Neighbouring Property Information (continued)

Direction From Site:	Relation to Property:	Current Use:	Across What
East	Neighbouring	Residential	HONI Transmission Corridor
Occupant Name:		Address:	
Vacant		505 to 571 St. Moritz Avenue and 605 to 657 Montpellier Drive	
Current Activities:			
Currently these properties are occupied by various residences.			
Historical Activities			
1930 to 2000 - Agricultural/Undeveloped A review of the aerial photographs indicated this property was occupied by agricultural properties.			
2000 to Present - Residential A review of the aerial photographs indicated these properties were developed between 2006 and 2016.			
Potential Environmental Concerns:			
No current or historical tenants, activities, or operations were identified on the eastern neighbouring property that would be considered a potential environmental concern to the Site.			

Direction From Site:	Relation to Property:	Current Use:	Across What
East	Adjoining	Industrial/Agricultural	Property Line
Occupant Name:		Address:	
Agricultural Land/HONI Transmission Corridor		Unknown	
Current Activities:			
Currently occupied by agricultural land and a HONI Transmission Corridor.			
Historical Activities			
1930 to 1955 - Undeveloped/agricultural A review of the aerial photographs indicated this property was occupied by undeveloped/agricultural fields.			
1955 to present - Undeveloped/agricultural/industrial A review of the aerial photographs indicated this property was occupied by undeveloped/agricultural fields with the construction of the HONI Transmission Corridor between 1955 and 1972.			
Potential Environmental Concerns:			
No current or historical tenants, activities, or operations were identified on the eastern neighbouring property that would be considered a potential environmental concern to the Site.			

Direction From Site:	Relation to Property:	Current Use:	Across What
Southeast	Neighbouring	Commercial	HONI Transmission Corridor
Occupant Name:		Address:	
Goodness Me Natural Food Market		668 Erb Street West	
Current Activities:			
Currently this property is occupied by a grocery store.			
Historical Activities			
1930 to 2000 - Agricultural/Undeveloped A review of the aerial photographs indicated this property was occupied by agricultural/undeveloped land.			
2000 to Present - Commercial A review of the aerial photographs indicated this property was developed with the construction of a building between 2015 and 2016.			
During the site visit, two ASTs were observed on the western edge of the property. No sign of fill and vent pipes for USTs for vehicle fueling could be observed from the Site.			
Potential Environmental Concerns:			
No current or historical tenants, activities, or operations were identified on the southeastern neighbouring property that would be considered a potential environmental concern to the Site.			

5.0 Site Visit Findings (continued)

5.8 Neighbouring Property Information (continued)

Direction From Site:	Relation to Property:	Current Use:	Across What
Southeast	Neighbouring	Commercial/Industrial	Erb Street West
Occupant Name:		Address:	
Waterloo Waste Management Centre		925 Erb Street West / 1001 Erb's Road / 1001 Erb Street West	
Current Activities:			
Currently these properties are occupied by the Waterloo Waste Management Centre including emergency services training and research complex, landfill administration, landfill operations, materials recycling centre, and transfer station.			
Historical Activities			
1946 to 1972 - Agricultural A review of the aerial photographs indicated these properties were occupied by agricultural land with associated structures and residential structure.			
1972 to Present - Commercial/Industrial A review of the aerial photographs indicated that development of the Waterloo Region Landfill occurred between 1972 and 1977. A review of the Region of Waterloo waste management website states that the Waterloo Region Landfill opened in 1972. As discussed in Section 3.3, an operating methane gas control system, leachate collection system, and groundwater extraction system were identified at the property. The general direction of groundwater flow at the Waterloo Waste Management Centre was identified as in a southeasterly to southerly direction. During the site visit, a waste transfer area with associated materials and household hazardous waste drop-off was identified within approximately 70 m southeast of the Site.			
Potential Environmental Concerns:			
Based on the presence of an operating methane gas control system, leachate collection system, a groundwater extraction system, and the inferred groundwater flow direction (this property is assumed to be directly downgradient of the Site), and distance of the active landfill area from the Site (greater than 200 m), the landfill operations at this property are not expected to represent a potential environmental concern to the Site. Based on the presence of a metal containers for the temporary storage of materials, concrete and asphalt surfaces, and the inferred groundwater flow direction (this property is inferred to be directly downgradient of the Site), the waste transfer area at this property was not expected to represent a potential environmental concern to the Site.			

Direction From Site:	Relation to Property:	Current Use:	Across What
Southeast	Adjoining	Commercial	Property Line
Occupant Name:		Address:	
Costco Wholesale		930 Erb Street West	
Current Activities:			
Currently this property is occupied by a commercial retailer of groceries, electronics, computers, furniture, outdoor living, appliances, and jewelry.			
Historical Activities			
1930 to 1982 - Agricultural/Undeveloped A review of the aerial photographs indicated this property was occupied by agricultural land. A review of the city directories identified a residential tenant from 1977 to 1997. 2015 to Present - Commercial A review of the aerial photographs indicated this property was developed between 2015 and 2016 with the structures and retail gasoline service station constructed after 2016.			

5.0 Site Visit Findings (continued)

5.8 Neighbouring Property Information (continued)

Historical Activities
During the site visit, a retail gasoline service station was observed on the southeastern portion of the property. Fill and vent pipes for USTs for vehicle fueling could be observed from the Site.
Potential Environmental Concerns:
Based on the distance of physical operations from the Site of the retail service station (approximately 380 m southeast of the Site), the operations and the retail service station at this property are not expected to represent an environmental concern to the Site.

Direction From Site:	Relation to Property:	Current Use:	Across What
South	Adjoining	Industrial	Property Line
Occupant Name:		Address:	
The Regional Municipality of Waterloo		990 Erb Street West	
Current Activities:			
Currently this property is occupied by the Regional Municipality of Waterloo facility related to the pumping of water.			
Historical Activities			
1946 to 1955 - Agricultural A review of the aerial photographs indicated this property was occupied by agricultural land.			
1955 to Present - Industrial A review of the aerial photographs indicated this property was developed between 1955 and 1964 .			
Potential Environmental Concerns:			
Based on the distance from the Site and inferred groundwater flow direction (this property is assumed to be directly downgradient of the Site), the industrial facility is not expected to represent an environmental concern to the Site.			

Direction From Site:	Relation to Property:	Current Use:	Across What
West	Neighbouring	Agricultural	Wilmot line
Occupant Name:		Address:	
Unknown		1074 Erbs Road	
Current Activities:			
Currently this property by an agricultural property with associated residential building and agricultural buildings.			
Historical Activities			
1930 to 1955 - Agricultural A review of the aerial photographs indicated this property was occupied by agricultural land.			
1955 to Present - Agricultural A review of the aerial photographs indicated this property was developed and the buildings constructed between 1955 and 1972.			
Potential Environmental Concerns:			
No current or historical tenants, activities, or operations were identified on the western neighbouring property that would be considered a potential environmental concern to the Site.			

Direction From Site:	Relation to Property:	Current Use:	Across What
Northwest	Neighbouring	Agricultural	Wilmot line
Occupant Name:		Address:	
Unknown		303 Wilmot Line	
Current Activities:			
Currently this property by an agricultural property with associated residential building and agricultural buildings.			
Historical Activities			
1930 to 1955 - Agricultural A review of the aerial photographs indicated this property was occupied by agricultural land.			
1955 to Present - Agricultural			

5.0 Site Visit Findings (continued)

5.8 Neighbouring Property Information (continued)

Historical Activities			
A review of the aerial photographs indicated this property was developed and the buildings constructed between 1955 and 1972.			
Potential Environmental Concerns:			
No current or historical tenants, activities, or operations were identified on the northwestern neighbouring property that would be considered a potential environmental concern to the Site.			

Direction From Site:	Relation to Property:	Current Use:	Across What
Northwest	Neighbouring	Residential	HONI Transmission Corridor
Occupant Name:		Address:	
Various		Various	
Current Activities:			
Currently these properties are occupied by various residences. The municipal addresses include 237 to 301 Buttonbush Drive and 259 to 329 Sweet Gale Drive.			
Historical Activities			
1930 to 2009 - Agricultural/Undeveloped A review of the aerial photographs indicated this property was occupied by agricultural property with an associated residential building and structures. The structures were demolished in 2009.			
2009 to Present - Residential A review of the aerial photographs indicated these properties were developed between 2009 and 2010.			
Potential Environmental Concerns:			
No current or historical tenants, activities, or operations were identified on the northwestern neighbouring property that would be considered a potential environmental concern to the Site.			

Direction From Site:	Relation to Property:	Current Use:	Across What
West	Adjoining	Agricultural	Property Line
Occupant Name:		Address:	
Unknown		50 Wilmot Line	
Current Activities:			
Currently this property by an agricultural property with associated buildings.			
Historical Activities			
1930 to 1982 - Agricultural/Undeveloped A review of the aerial photographs indicated this property was occupied by agricultural land.			
1982 to Present - Agricultural A review of the aerial photographs indicated this property was developed and the buildings constructed between 1982 and 1989.			
During the site visit, two ASTs were observed in the central portion of the property. No sign of fill and vent pipes for USTs for vehicle fueling could be observed from the Site.			
Potential Environmental Concerns:			
Based on the distance of physical operations from the Site (approximately 90 m west of the Site), the operations and the ASTs at this property are not expected to represent an environmental concern to the Site.			

Direction From Site:	Relation to Property:	Current Use:	Across What
Various	Adjoining	Vacant	Property Line
Occupant Name:		Address:	
Former Hergott Lands		928 Erb Street West	
Current Activities:			
Currently this property is occupied stockpiled soil associated with the development of the stormwater management pond and the structure of a former agricultural building.			

5.0 Site Visit Findings (continued)

5.8 Neighbouring Property Information (continued)

Historical Activities
1930 to 1955 - Agricultural A review of the aerial photographs indicated this property was occupied by an agricultural property with associated structures and a residential building. A review of the city directories identified a residential tenant from 1977 to 2012. 2015 to Present - Vacant A review of the aerial photographs indicated the structures associated with this property were demolished between 2015 and 2016. Stockpiling of the soil associated with the construction of the stormwater management pond occurred between 2015 and 2016. As discussed in more detail in Section 3.2, CH2M HILL identified several areas of potential environmental concern associated with the ASTs, storage of electronic waste and material storage, the use of pesticides, and maintenance activities.
Potential Environmental Concerns: Based on information and investigation results from CH2M Phase I and II ESA Reports, historical activities at this property are not considered to represent a potential environmental concern to the Site.

5.9 Client-Specific Items

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

6.0 Conclusions

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

- Two fueling ASTs were present at 100 Wilmot Line with no secondary containment and a historical diesel spill was associated with the ASTs.
- The storage of used oil containers within the Maintenance Shed at 100 Wilmot Line with no secondary containment and associated staining.
- The presence of a floor drain, situated within the Maintenance Building at 100 Wilmot Line, with no associated oil water separator.
- The unknown quality of imported fill material at 980 Erb Street West.

Stantec recommends a Phase II ESA be completed at the Site in order to evaluate the soil and/or groundwater quality in the vicinity of the above-mentioned environmental concerns.

7.0 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 Site and readily visible and publicly accessible portions of adjoining and neighbouring properties were observed from accessible portions of the Site and publicly accessible roadways for the presence of potential sources of environmental contamination
- The site contacts knowledge of the properties and site buildings
- Stantec was unaccompanied during the site visit for portions of the Site
- No other current or historical site contacts were available for an interview

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.

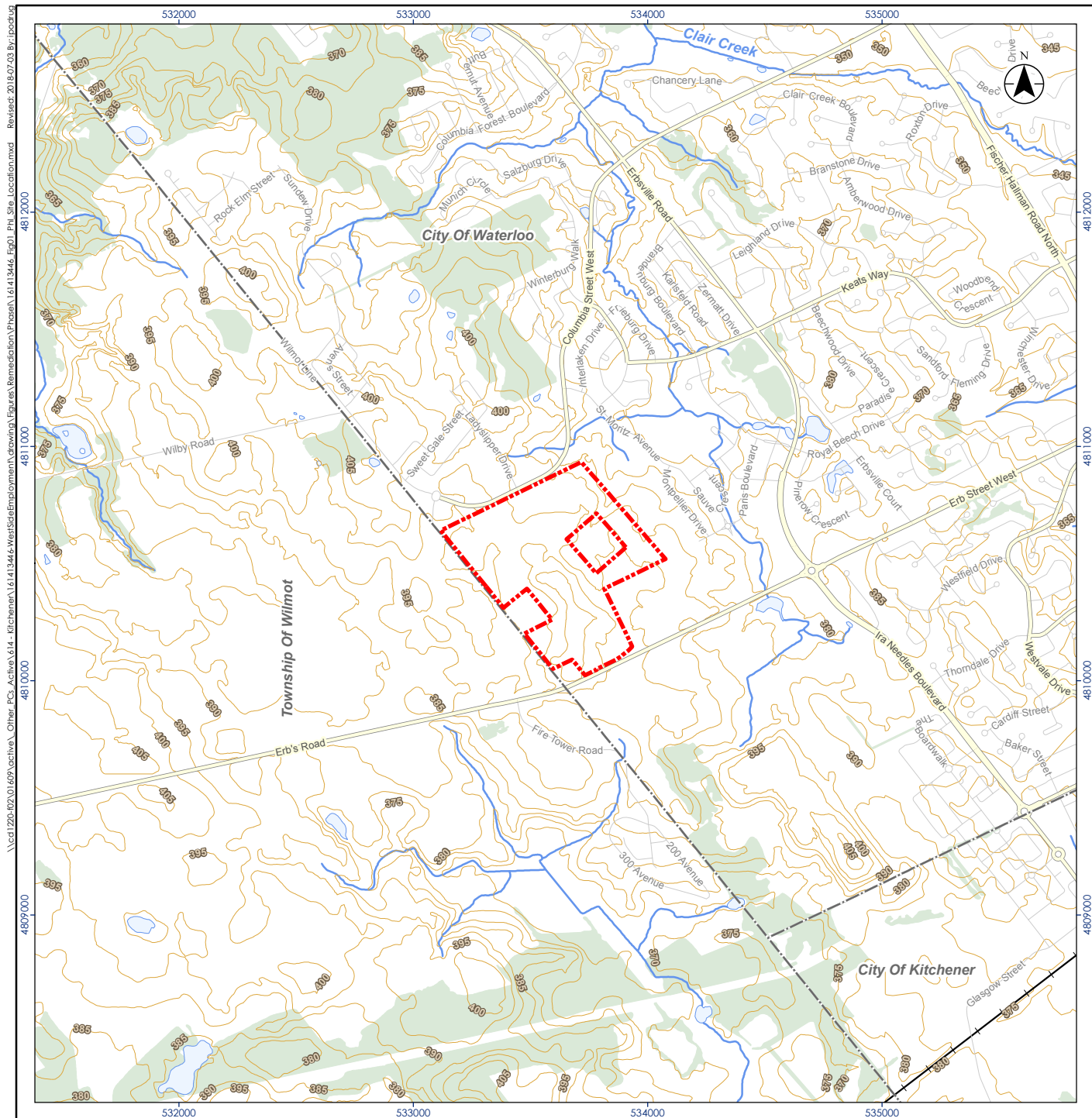
The conclusions are based on the site conditions encountered by Stantec at the time the work was performed at the specific testing and/or sampling locations, and conditions may vary among sampling locations. Factors such as areas of potential concern identified in previous studies, site conditions (e.g., 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, we request that this information be brought to our attention so that we may reassess the conclusions provided herein.

This report was prepared by Travis Pawlick, B.Sc. and reviewed by Brent Ferguson, B.Sc., P.Geo.

Appendix A

Site Plans



- Approximate Site Boundary
- Municipal Boundary - Lower Tier
- Major Road
- Minor Road
- Railway - Operational
- Topographic Contour (m AMSL)
- Watercourse
- Waterbody
- Wooded Area

0 250 500 metres
1:25,000 (at original document size of 8.5x11)



Project Location: Waterloo, Ontario
 Prepared by IP on 2018-07-03
 Technical Review by BF on 2018-05-11

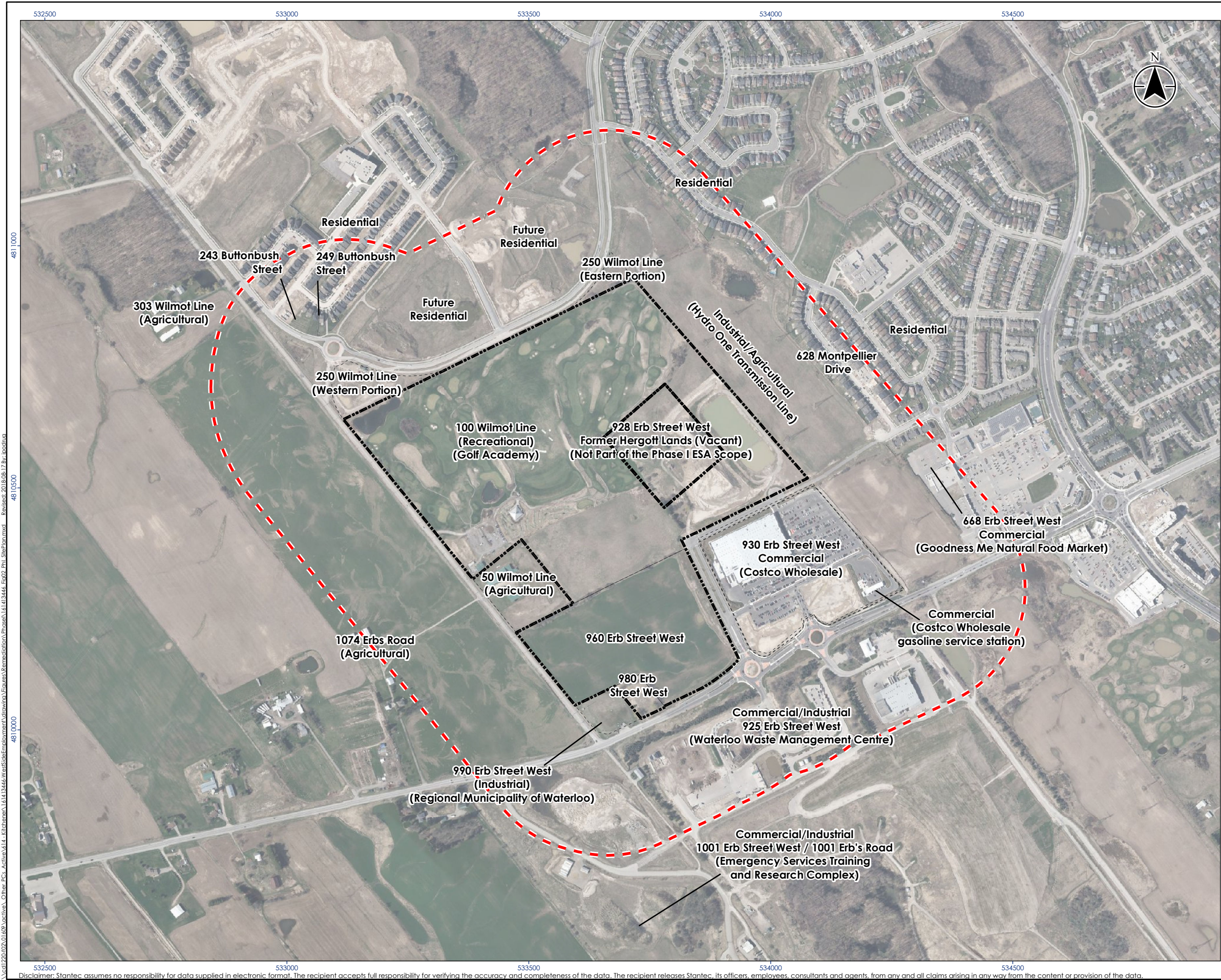
Client/Project: CITY OF WATERLOO
 PHASE I ENVIRONMENTAL SITE ASSESSMENT
 WEST SIDE EMPLOYMENT LANDS
 WATERLOO, ONTARIO

Figure No. 1

Title: **Site Location**

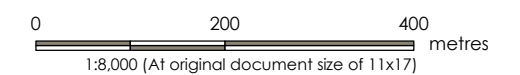
Notes
 1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2017.
 3. This figure is to be viewed in the context of the accompanying report and is subject to the limitations specified in that report.

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.



Legend

- 250m Phase II ESA Investigation Area
- Approximate Site Boundary
- Approximate Property Boundary



- 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, 2017.
 3. Orthoimagery © City of Waterloo, 2017. Imagery Date, 2016.
 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.



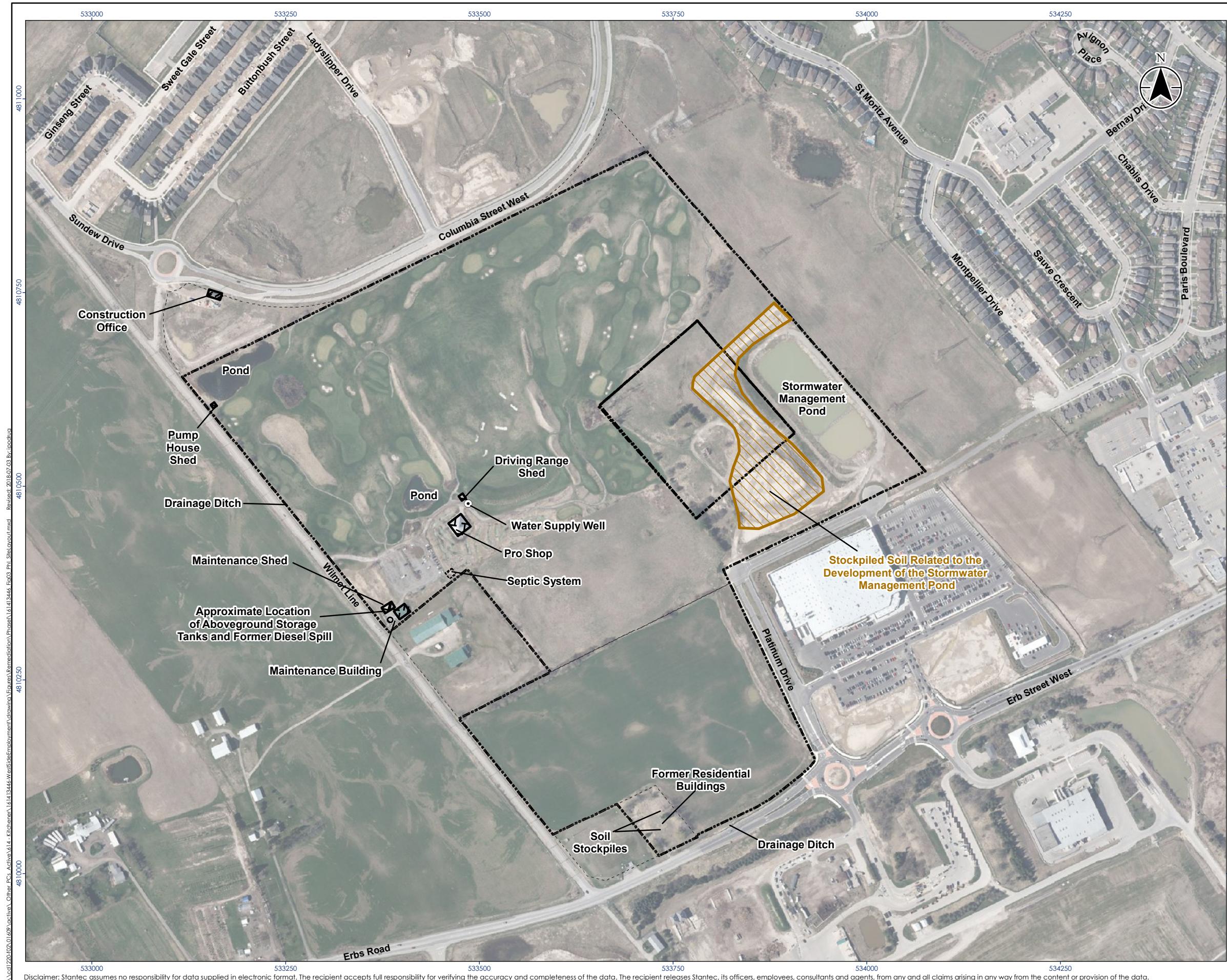
Project Location
Waterloo, Ontario

161413446 REV8
Prepared by IP on 8/17/2018

Client/Project
City of Waterloo
Phase I Environmental Site Assessment
West Side Employment Lands
Waterloo, Ontario

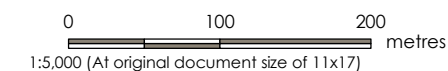
Figure No.
2

Title
Site Features and Investigation Area



Legend

- Approximate Site Boundary
- Approximate Property Boundary
- Building Footprint
- Stockpile Soil
- Approximate Location of Septic System
- Approximate Location of Water Supply



- 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, 2017.
 3. Orthoimagery © City of Waterloo, 2017. Imagery Date, 2016.
 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
Waterloo, Ontario

161413446
Prepared by IP on 7/3/2018

Client/Project
City of Waterloo
Phase I Environmental Site Assessment
West Side Employment Lands
Waterloo, Ontario

Figure No.

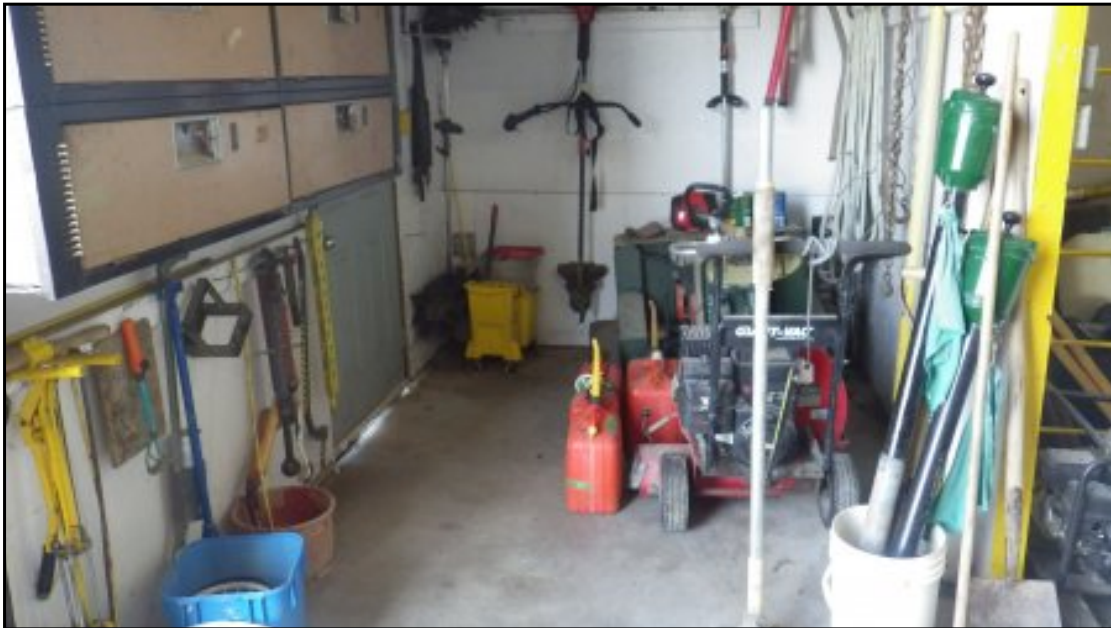
3

Title

Site Layout

Appendix B

Photographs



Storage of jerry cans within the Maintenance Building at 100 Wilmot Line.



Staining observed within the Maintenance Building at 100 Wilmot Line.



Staining observed within the Maintenance Shed at 100 Wilmot Line.



Storage of assumed used motor or engine oil within the Maintenance Shed at 100 Wilmot Line.



Driving range at 100 Wilmot Line, facing southeast.



Water supply well situated southeast of the Driving Range Shed at 100 Wilmot Line, facing east.



Storage of motor oil, transmission fluid, engine oil, hydraulic fluid, anti-freeze, paints and varnishes in the Maintenance Building at 100 Wilmot Line.



Observed staining near the drain in the Maintenance Building at 100 Wilmot Line.



Storage containers for used motor oil and used kitchen oil at 100 Wilmot Line, facing northwest.



Gasoline and diesel ASTs with no secondary containment at 100 Wilmot Line situated west of the Maintenance Building, facing west.



Neighbouring agricultural property at 1074 Erb's Road, facing west.



Former Hergott Lands at 928 Erb Street West and stockpiled soil, facing east.



Stormwater management pond situated on the eastern edge of 100 Wilmot Line, facing east.



Pump House Shed at 100 Wilmot Line, facing north.



Observed ASTs at 50 Wilmot Line, facing east.



Commercial property at 930 Erb Street West, facing southeast.



Observed stockpiled soil potentially related to backfilling operations at 980 Erb Street West, facing north.



Observed stockpiled fill material at 980 Erb Street West, facing northeast.



Agricultural fields at 960 Erb Street West, facing north.



Waterloo Waste Management Centre at 925 Erb Street West, facing southeast.



990 Erb Street West situated west of 980 Erb Street West, facing northwest



Construction Office at 250 Wilmot Line, facing north.

Appendix C

Assessor Qualifications

Travis Pawlick has been involved in environmental site assessments, investigations and remedial activities at various sites across Alberta, Ontario, Quebec and Saskatchewan since September 2010. He is experienced and qualified in environmental inspections, erosion and sediment control, supervision of borehole installation, monitoring well instrumentation, groundwater development and sampling, product purging, surface water sampling, soil sampling, hydrogeological testing, waste characterization sampling, test pit installation, and confirmatory sampling, while also acting as a health and safety representative. He has a thorough understanding of relevant environmental assessment and remediation methods and applicable environmental legislation.

EDUCATION

Bachelor of Physical Science with a Minor in Physics, University of Guelph / Bachelor of Physical Science with a Minor in Physics, University of Guelph / Guelph, Ontario, 2007

Post Graduate Certificate, Conestoga College / Environmental Engineering Applications, Conestoga College / Kitchener, Ontario, 2009

CERTIFICATIONS & TRAINING

Certificate / Canadian Certified Inspector of Sediment and Erosion Control, CISEC, INC, Cambridge, Ontario, 2015

Certificate, Canadian Red Cross / Standard First Aid Training, including CPR C and AED, Kitchener, Ontario, 2015

Certificate, GGHACA ESC Short Course for Urban Construction, Kitchener, Ontario, 2014

Certificate, Petroleum Oriented Safety Training, Kitchener, Ontario, 2016

Certificate, H2S Alive Safety Training, Markham, Ontario, 2012

Certificate, e-Railsafe Training, Kitchener, Ontario, 2016

Certificate, Conestoga College / OSHA Standard 29CFR 1910.120 40 hour Health and Safety Training, Conestoga College / Kitchener, Ontario, 2009

PROJECT EXPERIENCE

Environmental Assessment and Permitting

Early Works Construction Activities, Ontario (Environmental Scientist)

Provided technical support for addressing third party comments, analyzing and compiling data related to the development of former residential/commercial/industrial properties for future transportation services.

Environmental Site Assessment*, Cambridge, Ontario (Field Technician)

Field Technician for environmental site assessment for the installation of production monitoring wells. Tasks included supervision of borehole drilling, installation of monitoring wells, soil and groundwater sampling, and carrying out pumping tests. Field supervision included sub-contractor oversight including drillers and utility locators.

Environmental Mitigation and Monitoring

Water and Waste Management Services, Niagara-on-the-Lake, Ontario (Environmental Scientist)

Field technician for the pipeline expansion project related to the facility construction activities. Tasks included supporting the Construction manager and Environmental Inspector throughout excavation works with respect to environmental sampling (soil, slurry, and groundwater) for the purposes of materials management. In addition, materials management included conducting soil screening and soil stockpile sampling activities and reviewing water management activities on an on-going basis to verify that the most applicable and cost effective water management option was being used. Other responsibilities included preparing daily reports of conditions and activities at the project site.

* denotes projects completed with other firms

Travis Pawlick B.Sc.

Environmental Scientist

Water and Waste Management Services, Vaughan, Ontario (Environmental Scientist)

Field technician for the pipeline expansion project related to the facility construction activities. Tasks included supporting the Construction manager and Environmental Inspector throughout excavation works with respect to environmental sampling (soil, slurry, and groundwater) for the purposes of materials management. In addition, materials management included conducting soil screening and soil stockpile sampling activities and reviewing water management activities on an on-going basis to verify that the most applicable and cost effective water management option was being used. Other responsibilities included preparing daily reports of conditions and activities at the project site.

Annual Monitoring, Thorold, Ontario (Field Technician)

Field Technician for assisting in annual restoration and vegetation monitoring of a former remediated area. The monitoring involved recording tree health, shrub cover, and density of herbaceous species.

Various Environmental Monitoring, Ontario (Field Technician)

Field Technician for annual, quarterly, and monthly monitoring events for surface and groundwater quality at various locations across Ontario including gas stations, nuclear generating stations, former agricultural testing facility, and former manufacturing facilities.

Environmental Monitoring*, Sarnia, Ontario (Field Technician)

Field Technician for the supervision of a landfill treatment facility. Tasks included coordination of leachate pumping with disposal facility, signing and organization of waste manifests and monthly sampling requirements.

Environmental Site Assessments Phase I, II, III Containment Overview Study, Ontario (Environmental Site Assessor)

Site assessor and report writer for containment overview studies related to construction projects in Southwestern Ontario. Construction projects related to watermain replacements and expansion of roadways.

Phase Two Environmental Site Assessment, Windsor, Ontario (Field Technician)

Field Technician for an environmental site assessment of historical coal storage for an operational retail lumber yard. Tasks included supervision of borehole drilling, installation of monitoring wells, surveying, soil and groundwater sampling. Field supervision included subcontractor oversight including drillers and utility locators

Baseline Soil Investigation Program, Geraldton, Ontario (Field Technician)

Field Technician for a baseline soil investigation program to investigate soil quality in areas affected by historical mining activities. Tasks included supervision of soil investigation through test pitting, hand augering, and soil sampling collection and documentation. Field supervision included sub-contractor oversight including contractors and utility locators.

Tank Removal at Bonded Warehouse, Toronto, Ontario (Field Technician)

Field Technician for the excavating, tank removal, and soil sampling related to an airport bonded warehouse. Tasks included supervision of contractor oversight, soil and groundwater sampling.

Environmental Site Assessment, Oakville, Ontario (Field Technician)

Field Technician for environmental site assessment for an active lubricant processing facility. Tasks included contractor supervision of daylighting excavations, soil sampling, groundwater sampling, well development, water level snap shots and completion of hydraulic conductivity testing.

Environmental Site Assessment, Toronto, Ontario (Field Technician)

Field Technician for environmental site assessments for the addition of natural gas pipelines to the current distribution system. Tasks included groundwater sampling, well development, carrying out water level snap shots completion of slug test analysis, and assisting in sampling QA/QC.

Phase One Environmental Site Assessment, Huron County, Ontario (Site Assessor)

Phase I site assessor for the potential installation of wind turbines in agricultural lands.

* denotes projects completed with other firms

Travis Pawlick B.Sc.

Environmental Scientist

Environmental Site Assessment, London, Ontario (Field Technician)

Field Technician for environmental site assessment for a subsurface investigation related to off-site groundwater and soil delineation. Tasks included supervision of borehole drilling, installation of monitoring wells, surveying, soil and groundwater sampling. Field supervision included sub-contractor oversight including drillers, and utility locators.

Environmental Site Assessment, Kitchener, Ontario (Field Technician)

Field Technician for environmental site assessment for a subsurface investigation related to bridge reconstruction. Tasks included supervision of borehole drilling, installation of monitoring wells, soil and groundwater sampling. Field supervision included sub-contractor oversight including drillers, and utility locators.

Phase II Environmental Site Assessment, Ontario (Field Technician)

Field Technician for environmental site assessments in support of property acquisition for a real estate investment trust at varying commercial plazas. Tasks included supervision of borehole drilling, installation of monitoring wells, soil and groundwater sampling, carrying out water level snap shots, and assisting in sampling QA/QC. Field supervision included sub-contractor oversight including drillers and utility locators.

Phase Two Environmental Site Assessment, Thunder Bay, Ontario (Field Technician)

Field Technician for environmental site assessments in support of record of site conditions for a current environmental laboratory that had been the site a former foundry. Tasks included supervision of borehole drilling, installation of monitoring wells, soil and groundwater sampling, carrying out water level snap shots, and assisting in sampling QA/QC. Field supervision included sub-contractor oversight including drillers and utility locators.

Phase Two Environmental Site Assessment, Montreal, Quebec (Field Technician)

Field Technician for environmental site assessments in support of record of site conditions for a current large vehicle garage. Tasks included supervision of borehole drilling, installation of monitoring wells, soil and groundwater sampling, carrying out water level snap shots, and assisting in sampling QA/QC. Field supervision included sub-contractor oversight including drillers and utility locators.

Phase Two Environmental Site Assessment*, Toronto, Ontario (Field Technician)

Field Technician for environmental site assessments in support of record of site conditions for varying properties that included manufacturing facilities, foundries, gas stations, and vacant industrial properties. Tasks included supervision of borehole drilling, installation of monitoring wells, soil and groundwater sampling, carrying out water level snap shots, and assisting in sampling QA/QC. Field supervision included sub-contractor oversight including drillers, 3rd party consultant, surveyors and utility locators.

Phase One Environmental Site Assessment* (Data Analyst)

Provided technical support for addressing third party reviewers comments, analyzing and compiling data. Previous sites included manufacturing facilities, military installations, Brownfield development, and vacant properties in Ontario and Alberta.

Phase Two Environmental Site Assessment*, Ontario (Data Analyst)

Provided technical support for addressing third party reviewers comments, analyzing and compiling data. Previous sites included manufacturing facilities, military installations, Brownfield development, and vacant properties.

Phase Two Environmental Site Assessment*, St. Catharines, Ontario (Field Technician)

Field Technician for environmental site assessment for a former automotive manufacturing facility. Tasks included soil and groundwater sampling, carrying out water level snap shots, and assisting in sampling QA/QC.

* denotes projects completed with other firms

Travis Pawlick B.Sc.

Environmental Scientist

Phase Two Environmental Site Assessment*, Toronto, Ontario (Field Technician)

Field Technician for environmental site assessments for varying highway and roadway properties. Tasks included supervision of borehole drilling, installation of monitoring wells, soil and groundwater sampling, carrying out water level snap shots, and assisting in sampling QA/QC. Field supervision included sub-contractor oversight including drillers, 3rd party consultant, surveyors and utility locators.

Phase Two Environmental Site Assessment*, Port Stanley, Ontario (Field Technician)

Field Technician for environmental site assessments for a former industrial facility. Tasks included supervision of borehole drilling, installation of monitoring wells, supervision of test pitting, soil, surface water and groundwater sampling, carrying out water level snap shots completion of slug test analysis, and assisting in sampling QA/QC. Field supervision included sub-contractor oversight including drillers, 3rd party consultant, surveyors and utility locators.

Phase Two Environmental Site Assessment*, Ontario (Field Technician)

Field Technician for environmental site assessments for a former chemical industrial facility. Tasks included installation of a siphon system to dilute lagoon holding ponds to manageable levels, surface water and groundwater sampling, and carrying out water level snap shots. Field supervision included sub-contractor oversight of seeding operation of a waste settling basin.

Phase Two Environmental Site Assessment*, Alberta, Ontario (Field Technician)

Field Technician for environmental site assessments for a former chemical landfill. Tasks included supervision of borehole drilling, installation of monitoring wells, soil and groundwater sampling. Field supervision included sub-contractor oversight including drillers, 3rd party consultant, surveyors and utility locators.

Environmental Site Remediation

Targeted Remedial Excavation Program, Toronto, Ontario (Environmental Scientist)

Environmental scientist and report writer for the site closure and property transfer of a former industrial property. Tasks included contractor supervision of removing impacted soil and surface water, contractor oversight and soil sampling.

Remedial Excavation Program, London, Ontario (Field Technician)

Field Technician for the remedial excavation program to identify and remove soil and/or groundwater impacted by petroleum hydrocarbons at an active tire and service centre. Tasks included contractor supervision of removing impacted soil and surface water, contractor oversight of structural installation of support beams and underpinning foundation walls, investigating of interior and exterior soil sampling, surface water sampling, borehole delineation of inferred contamination, site restoration and backfilling, air quality monitoring and daily progress reports.

Site Remediation, Mississauga, Ontario (Field Technician)

Field Technician for the clean-up of environmental impacts related to a historical solvent release from an off-site source on a commercial property. Tasks included contractor supervision of removing impacted soil and soil sampling, groundwater sampling, surface water sampling, borehole and monitoring well installation, supervision of backfilling and installation of an injection wells, air quality monitoring and daily progress reporting.

Site Remediation – Fuel Oil Release, Owen Sound, Ontario (Field Technician)

Field Technician for the clean-up of environmental impacts related to fuel oil release from a leaking storage tank on a residential property. Tasks included contractor supervision of removing impacted soil and soil sampling, groundwater sampling, surface water sampling, borehole installation, supervision of backfilling and installation of an injection wells, air quality monitoring and daily progress reporting.

Emergency Response – Crude Oil Release, Fort McMurray, Alberta (Field Technician)

Field Technician for the clean-up of environmental impacts related to crude oil release along a pipeline near an active terminal. Tasks included contractor supervision of removing impacted soil and soil sampling, surface water sampling, air quality monitoring and daily progress reporting.

* denotes projects completed with other firms

Travis Pawlick B.Sc.

Environmental Scientist

Site Remediation, Glenavon, Saskatchewan (Field Technician)

Field Technician for the clean-up of environmental impacts related to condensate release at a pipeline terminal. Tasks included contractor supervision of removing impacted soil and heating of frozen soil, surveying, soil sampling, air quality monitoring and daily progress reporting.

Site Remediation*, Sarnia, Ontario (Field Technician)

Field Technician for the cleanup of environmental impacts related to a former chemical facility. Tasks included contractor supervision of removing impacted soil and surface water, contractor oversight, soil sampling, surface water sampling, air quality monitoring and daily progress reports. Post remediation efforts involved confirmatory drilling, test pitting, and soil sampling and monitoring of sediment and erosion control measures for drainage ditches and silt fences.

Site Remediation*, Ontario (Field Technician)

Field Technician for the site closure and property transfer of a former large industrial chemical facility. Tasks included contractor supervision of soil mixing operation, soil sampling, air quality monitoring, quality control testing and daily progress reporting. Follow-up activities included test pit investigations and drilling oversight for confirmatory compliance.

Site Remediation*, Toronto, Ontario (Field Technician)

Field Technician for clean-up of environmental impacts related to underground storage tanks, kilns, abandoned pipes and waste. Tasks included contractor management of remedial activities including test pitting, tank removal, and confirmatory soil sampling.

Environmental Inspection

Line 7 Capacity Expansion Project, Ontario (Environmental Inspector)

Environmental Inspector for the pipeline expansion project related to the facility construction activities. Tasks included providing environmental assurance during construction through onsite inspections, familiarity with the specific environmental issues of the project, responsible for measurement and monitoring of environmental mitigation during the various phases of construction, conducting environmental sampling related to Permit to Take Water requirements, conducting environmental sampling related to waste disposal, and ensuring erosion and sediment control measures are implemented and effective. Other responsibilities included preparing daily reports of conditions and activities at the project sites, reporting and documenting environmental incidents to the appropriate regulators.

Line 9B Reversal and Line 9 Capacity Expansion Project, Ontario (Environmental Inspector)

Environmental Inspector for the pipeline expansion project related to the facility construction activities. Tasks included providing environmental assurance during construction through onsite inspections, familiarity with the specific environmental issues of the project, responsible for measurement and monitoring of environmental mitigation during the various phases of construction, conducting environmental sampling related to Permit to Take Water requirements, conducting environmental sampling related to waste disposal, and ensuring erosion and sediment control measures are implemented and effective. Other responsibilities included preparing daily reports of conditions and activities at the project sites, reporting and documenting environmental incidents to the appropriate regulators.

Restoration, Remediation and Redevelopment

Derailment Site Decommissioning, Parry Sound, Ontario (Field Technician)

Field Technician for decommissioning activities related to a historical derailment. Tasks included supervision of site preparation of silt and sediment controls, decommissioning of on-site monitoring wells, drive points, and sumps, removal of the constructed underflow weir, re-orientation of the drainage ditch, soil and surface water sampling collection. Field supervision included sub-contractor oversight including contractors and drillers.

* denotes projects completed with other firms

Brent Ferguson, B.Sc., P.Geo. has worked as a project manager, environmental geologist and hydrogeologist within the environmental consulting industry since 2000. He has been involved with, project managed or reviewed hundreds of Phase II Environmental Site Assessments (ESAs) and remediations in Ontario and Atlantic Canada, and has project managed, conducted or reviewed hundreds of Phase I ESAs in various Canadian provinces and U.S. states. Brent is a registered professional geoscientist in Ontario and is considered a Qualified Person for Environmental Site Assessment and Remediation by the Ontario Ministry of the Environment and Climate Change. Internationally, he has provided management and supervision of field work for a contaminated soil and groundwater assessment in the United Arab Emirates. Brent has managed or assisted in the management of both large and small scale federal Canadian Environmental Assessment Agency (CEAA) and provincial Environmental Assessments (EAs), Nova Scotia, New Brunswick and Ontario provincial regulatory approval projects, and environmental management plans for various types of industry. In addition, in support of federal and provincial EAs, Brent has undertaken large and small scale hydrogeological assessments, and has completed numerous contaminant hydrogeological projects. Prior to employment in the environmental consulting industry, Brent worked in the Canadian oil and gas industry as a geologist on both land based drilling leases in Alberta and on offshore drilling leases in the North Atlantic near Sable Island, Nova Scotia.

EDUCATION

Bachelor of Science, Acadia University, Geology,
Wolfville, Nova Scotia, 1997

Post Graduate Certificate, Niagara College,
Environmental Management, Niagara-on-the-Lake,
Ontario, 2000

MEMBERSHIPS

Practicing Member, Association of Professional
Geoscientists of Ontario

PROJECT EXPERIENCE

Environmental Site Assessments Phase I, II, III

Site Assessment and Risk Assessment – Amiens,
Mons and Vimy Rifle Ranges CFB Borden, Ontario
(2016-2017) (Task Manager/Senior Technical
Reviewer)

Stantec completed a Field Investigative Work Plan (FIWP), Phase III Environmental Site Assessment and Preliminary Quantitative Risk Assessment (PQRA) for three rifle ranges at CFB Borden. Intrusive site activities were planned to realize efficiencies with two other Stantec site assessments occurring at the base at the same time. Metal contaminants previously identified at the site included those typically associated with firing ranges (e.g., antimony, copper, lead, zinc). Nitrates/nitrites were also previously identified in groundwater. The purpose of the site assessment was to delineate impacts and also assess the potential for contaminant fate and transport. Monitoring wells were installed, groundwater sampling and soil sampling were

conducted. A hydrological assessment was conducted to evaluate if there were surface water and sediment impacts associated with overland flow. SPLP analyses were conducted to assess if metals in soil in the butt stops were leaching in simulated rainwater leachate tests. The PQRA assessed typical human and ecological receptors that would be exposed to contaminants at the site using federal guidance. A species at risk assessment was conducted. Based on the data collected, risks were determined to be acceptable. NCSCS scores were prepared for each of the sites. Mr. Ferguson managed the ESA portion of the work and provided senior technical review of the ESA reports. The project received high CPERF scores from DCC.

Phase III Environmental Site Assessment – Former
Disposal Site, CFB Borden, Ontario (2016-2017)
(Project Manager/Senior Technical Reviewer)

Stantec completed a Field Investigative Work Plan (FIWP) and a Phase III Environmental Site Assessment at a former munition disposal site at CFB Borden. Intrusive site activities were planned to realize efficiencies with other Stantec site assessments (four separate sites) occurring at the base at the same time. The purpose of the work was to assess (to determine if still present) and delineate (if present) previously identified metal impacts in soil and groundwater at the Site. In addition to metals, soil and groundwater at the site was assessed for munition indicator parameters including chloride, orthophosphate, phenols, sulfate, sulfide, sulfur, glycol, and VOCs. A biologist conducted a site visit to determine if the gully area being assessed would be considered a waterbody in relation to the selection of applicable assessment standards at the site, a geophysical assessment was conducted to confirm munitions were no present at drilling locations, monitoring wells were installed,

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Associate / Senior Geoscientist / Project Manager

groundwater sampling and soil sampling were conducted. Based on the data collected, the gully area was determined to not be a waterbody and concentrations of contaminants of concern in soil and groundwater were below current allowable concentrations at the site. Therefore, Stantec recommended completion of the FCSAP site Closure Tool. The project received high CPERF scores from DCC.

Phase III Environmental Site Assessment – Vehicle Refueling Facility #2, CFB Borden, Ontario (2016-2017) (Project Manager/Senior Technical Reviewer)

Stantec completed a Field Investigative Work Plan (FIWP) and a Phase III Environmental Site Assessment at a former vehicle refueling facility at CFB Borden. Intrusive site activities were planned to realize efficiencies with other Stantec site assessments (four separate sites) occurring at the base at the same time. The purpose of the work was to assess (to determine if still present) and delineate (if present) previously identified metal, PAH, BTEX, and PHC impacts in soil and groundwater at the Site. Monitoring wells were installed, groundwater sampling and soil sampling were conducted. Based on the data collected, concentrations of contaminants of concern in soil and groundwater were below current allowable concentrations at the site and therefore, which the exception of recommending one additional round of groundwater sampling to corroborate the current results, Stantec recommended completion of the FCSAP site Closure Tool. The project received high CPERF scores from DCC.

Data Gap Analysis, Site Investigation (Phase III ESA), Risk Assessment Update and Remedial/Risk Management Option Analysis, near the Neskantaga First Nation community of Lansdowne House, Ontario (Task Manager/Senior Technical Reviewer)

Project work included coordinating and conducting a Phase III ESA at a remote site former weather station in Northern Ontario so that the information could be used to update a previously completed risk assessment and to conduct a remedial option analysis for the site. Field work included a borehole drilling, monitoring well installation and sampling, and a habitat assessment at the site.

Portfolio of Five First Nation Assessment Sites (4 Phase I ESAs and 1 Phase II ESA), Various Northern Ontario sites (Task Manager/Senior Technical Reviewer)

To help facilitate property transactions, the work included completion of Phase I ESAs of proposed land to be acquired for the Aroland, Alderville, Moose Deer Point and Nibinamik First. Where applicable, potential environmental concerns, best management practices and health and safety concerns were noted at the site and recommendations for future work were provided in technical reports. In addition, the work included the completion of a Phase II ESA of a potentially contaminated site adjacent to the Mattagami First Nation. The assessed site was a historical Ministry of Natural Resources camp including a sea plane refueling base and associated buildings. The work program included installing and sampling groundwater monitoring wells at the site and documenting the findings in a Phase II ESA report for our client.

Canada Post Corporation, Various, Southwestern Ontario (Project Manager/Regional Lead)

Mr. Ferguson was the Regional Lead and Project Manager for work on various Canada Post Corporation (CPC) sites in Southwestern Ontario. The Regional Lead role entailed high level project management to ensure that project tasks completed by Stantec (e.g., Phase I/II ESAs, Risk Assessments, Geotechnical Assessments, Hazardous Material Surveys, Property Surveys, and Physical Planning Studies) were completed on schedule/budget. The project management role on these sites included providing technical work plans and costing; completing structured reports for Phase I/II/III ESAs outlining historical and subsurface conditions, identifying and delineating areas of potential or actual environmental concern, determining effluent quality of groundwater for potential discharge to storm water systems, and determining waste classification for soil material to be potentially removed from the sites; advising on future risk management, remedial actions and/or monitoring requirements; conducting site meetings to review project objectives and completing site reconnaissance activities; completing health and safety plans including the coordination of underground services clearances; evaluation of soil and groundwater analytical results and comparing these results to pertinent federal and provincial standards/guidelines; and communicating impact on the sites to CPC both through live presentations and by written technical reports.

* denotes projects completed with other firms

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Associate / Senior Geoscientist / Project Manager

Phase I ESA and Phase II ESA, Proposed Oakville Hospital, Oakville, Ontario (Task Manager/Senior Technical Reviewer)

The work included completion of a Phase I and Phase II ESA on five different neighbouring parcels of land to help facilitate land transfers to allow for the development of the new Oakville Hospital. Based on the findings of the assessments, individual recommendations were made for each of the parcels and this facilitated the necessary land transfers to allow for construction of the Oakville Hospital. In addition, the reports provided guidance relating to soil handling during the future development of the Site.

Phase I & II ESA of Property Formerly Containing a Chemical Laboratory, Hamilton, Ontario (Project Manager, Environmental Geologist, Hydrogeologist, Phase I ESA Senior Technical Reviewer)

Stantec conducted a pre-purchase due diligence Phase I and II ESA of a property that was part of a former chemical laboratory. The Phase II ESA included a borehole/monitoring well program to assess soil and/or groundwater for various contaminants including petroleum hydrocarbons (PHC), heavy metals, polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), and dioxins and furans.

Phase I/II ESA and Remediation, Toronto, Ontario (Phase I ESA Senior Reviewer)

Stantec conducted a Phase I ESA, Phase II ESA and remediation work on a property in downtown Toronto to address environmental impacts from fill, a former dry cleaner and various other offsite potential sources. The work was completed and a RSC was filed for the property and approved.

Modified Phase I ESA & Limited Phase II ESA Material Management Assessment, Ottawa, Ontario (Project Coordinator, Environmental Geologist)

The investigation included a Modified Phase I ESA and a Limited Phase II ESA to determine potential impacts on three Ottawa streets. Material management options for soil and groundwater were supplied in support of a proposed integrated road, water and sewer rehabilitation project.

Subsurface Environmental Investigation, Jebel Dhanna, United Arab Emirates (Onsite Field Supervisor, Environmental Geologist, Hydrogeologist)

This environmental investigation in the United Arab Emirates included subsurface soil and groundwater assessments within the Jebel Dhanna Terminal and along the associated pipeline for the presence of released crude oil. The scope included supervision of foreign drilling crews, as well as the production of environmental and hydrogeological assessment reports for the sites.

Contaminant Overview Study (COS) and Excess Materials Management Plan (EMMP), Schomberg, Ontario (Task Manager)

Stantec completed a Contaminant Overview Study (COS) to support preliminary design service activities associated with replacement of bridge sites on Highway 400 at North Canal and Holland Marsh near Schomberg, ON. The COS was a modified Phase I ESA, which included a review of publicly available historical records pertaining to potential environmental concerns, the completion of a windshield survey to verify information gathered in the review of historical records, and the preparation of a report which documented the findings. The supplemental Excess Materials Management Plan (EMMP) involved soil sampling for contaminants of concern identified during the COS so that suitable management protocols for this material could be developed.

Phase I ESA, Various Sites in Canada and the USA (Project Manager, Site Assessor, Senior Reviewer)

Over 500 Phase I ESAs have been conducted or reviewed by Mr. Ferguson on both large portfolio projects, as well as smaller single site locations. Types of sites have included (but are not limited to) port facilities, postal facilities, wharves, lighthouses, seafood processing plants, warehouses, dry cleaners, gasoline service stations, furniture manufactures, lumberyards, sawmills, automotive dealerships, railways, railway yards, multi-tenant commercial/industrial buildings, industrial manufacturing facilities, retail stores, commercial shopping centres, restaurants, hotels, residential apartment buildings, residential homes, water lots, and vacant lots.

* denotes projects completed with other firms

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Environmental Site Assessments Phase I, II, III

Phase One ESA, Nursing Home, Burlington, Ontario
(Task Manager/Senior Technical Reviewer)

Project work included conducting a Phase One ESA at an active nursing home facility to be compliant with the revised Ontario Regulation 153/04 so that a Risk Assessment and a Record of Site Condition (RSC) could be completed for the property. Since it was an active healthcare facility, privacy concerns of the residents were a factor that Stantec took into consideration when completing the assessment of the site. Due to the length of time between the original report completion and present, the information was updated in order to file the RSC. Work is ongoing.

Environmental Site Remediation

Remediation of Surplus Seaway Lands, St.
Catharines, Ontario (Assistant Project Manager)

Provided project management, environmental oversight, and contract administration on behalf of Public Works Government Services Canada (PWGSC) for the remediation of surplus seaway lands in St. Catharines including excavation, treatment, and removal of 61,163 tonnes of lead and/or PAH impacted hazardous waste located in the surface soils of an 8.5 hectare former skeet range owned by Transport Canada. Tasks included: monitoring of the project health and safety plan, monitoring environmental mitigation measures implemented under CEAA, monitoring & tracking remediation activities, monitoring confirmatory & quality control sampling, review/approval of contractor contemplated change notices and invoices, and writing a technical report detailing the findings of the remediation. Through monitoring activities unforeseen additional contamination on the property that would have prevented the successful completion of a RSC required for divestment of the property was discovered. Therefore an additional requirement for a Phase III ESA was communicated to PWGSC, a technical and cost proposal was prepared, and the Stantec field staff completing the work were supervised during the supplemental delineation investigation which included the excavation of test pits on the site and the collection of soil samples for the contaminants of concern to assess the vertical and horizontal distribution of the subject fill. The results of the investigation were reported in a technical document that was to be used as a basis for the future planned remediation of the fill.

Residential Fuel Oil Spill Remediation, North York,
Ontario (Project Manager, Environmental
Geologist, Hydrogeologist)

Conducted site assessment and remediation work on two neighbouring residential properties. The first property was remediated by underpinning the residential building to allow for an excavation of the PHC impacted soil. A non-permeable barrier was constructed below grade along the property line with a down gradient property, and then a program of in-situ chemical oxidization (ISCO) was initiated on this downgradient property to remediate the portion of PHC impacted soil on that property. The ISCO program reduced the areal extent and concentrations of the PHC impacted soil, and subsequent studies were conducted to delineate the PHC-impacted soil and groundwater at the site and to complete groundwater modelling and a Monitored Natural Attenuation (MNA) assessment to provide an opinion as to the likelihood whether the PHC-impacts would reach the downgradient property line. Work is ongoing.

Residential Fuel Oil Spill Remediation, Hartington,
Ontario (Project Manager, Environmental
Geologist, Hydrogeologist)

Conducted site assessment and remediation work and follow-up groundwater monitoring to address impacts from a fuel oil spill that occurred at a residential home next to a lake. The property was considered a sensitive site for the application of assessment and remediation standards. A Risk Assessment was completed and a RSC was filed for the property.

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Associate / Senior Geoscientist / Project Manager

Assessment, Permitting and Compliance

Soil Landfarm Environmental Subsurface Investigation (ESI), Landfarm Alteration Plan (LAP), and Waste Environmental Certificate of Approval (ECA), Corunna, Ontario (Task Manager)

Completed an Environmental Subsurface Investigation (ESI) and portions of a Landfarm Alteration Plan (LAP) in support of the preparation and submission of an amendment to the Waste Environmental Certificate of Approval (ECA) for a soil landfarm that is used to treat petroleum hydrocarbons at a petrochemical industrial facility. The Waste ECA amendment was required to allow for the development of future infrastructure (e.g., flare tower, pipe racks, and associated structures) within a soil landfarm. The ESI included drilling boreholes, installing monitoring wells, and assessing the soil and groundwater in the landfarm for contaminants of concern including PHC F1 to F4, PAHs, VOCs, and metal and inorganic parameters. The findings of the ESI were used to advise the client as to the environmental requirements associated with development in the landfarm. Sufficient LAP details were provided within the Waste ESA submission and the ECA amendment was approved in October 2016.

Environmental Assessment of the Rhodena Rock Quarry, Mulgrave, Nova Scotia (Project Coordinator, Hydrogeologist)

The project included completing an Environmental Assessment and Industrial Approvals for a quarry project in Mulgrave, Nova Scotia.

Baseline Groundwater Study for a Gravel Pit Operation, Nictaux, Nova Scotia (Project Manager Hydrogeologist)

The project included conducting a baseline hydrogeological study on the proposed gravel pit site to determine background water chemistry and water table characteristics prior to development of the pit.

Baseline Conditions Study, Bearhead, Nova Scotia (Environmental Geologist, Hydrogeologist)

The project included environmental baseline studies of the property for a proposed liquefied natural gas (LNG) facility. The study included chemical and biophysical studies of surface water, groundwater, soils and marine sediment.

CEAA Environmental Assessment of the Bear Head Pipeline, Bearhead to Goldboro, Nova Scotia (Hydrogeologist)

The project included conducting a CEAA Environmental Assessment of a liquified natural gas (LNG) pipeline from the Bear Head facility to the main transmission pipeline at Goldboro.

Environmental Assessment and Permitting of the Sovereign Resources Quarry Modification, Waverly, Nova Scotia (Hydrogeologist)

The project included completing an Environmental Assessment and Industrial Approvals for a controversial quarry project in Waverly, Nova Scotia.

* denotes projects completed with other firms

Appendix D

Supporting Documentation



DATABASE REPORT

Project Property: WSEL
100 Wilmot Line
Waterloo ON
161413446

Project No:

Report Type: Quote - Custom-Build Your Own Report

Order No: 20170330028

Requested by: Stantec Consulting Ltd.

Date Completed: April 4, 2017

**Environmental Risk
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Executive Summary

Property Information:

Project Property: WSEL
100 Wilmot Line Waterloo ON

Project No: 161413446

Order Information:

Order No: 20170330028
Date Requested: March 30, 2017
Requested by: Stantec Consulting Ltd.
Report Type: Quote - Custom-Build Your Own Report

Additional Products:

Aerial Photographs National Collection - Digital (PDF)
Insurance Products Fire Insurance Maps/Inspection Reports/Site Specific Plans
Land Title Search Title Search

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	5	0	5
CA	Certificates of Approval	Y	1	5	6
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
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	2	0	2
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	4	1	5
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	3	0	3
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	8	25	33
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
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.25km</i>	<i>Total</i>
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
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	13	13
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	3	3
PIPELINE INCIDENTS PRT	National Energy Board Pipeline Incidents	Y	0	0	0
	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	4	4
SPL	Ontario Spills	Y	1	3	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	16	16
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	9	15	24
Total:			33	85	118

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
<u>1</u>	GEN	GolfNorth Management Corp. Waterloo Golf Academy	100 Wilmot Line RR STN 3 Waterloo Waterloo ON N2J 3Z4	-/0.0	-2.37	<u>23</u>
<u>2</u>	GEN	GolfNorth Management Corp. Waterloo Golf Academy	100 Wilmot Line RR STN 3 Waterloo Waterloo ON	-/0.0	-3.07	<u>23</u>
<u>3</u>	WWIS		lot 41 ON	-/0.0	-5.83	<u>23</u>
<u>4</u>	WWIS		WATERLOO ON	-/0.0	-8.90	<u>27</u>
<u>5</u>	WWIS		lot 41 ON	-/0.0	-2.15	<u>28</u>
<u>6</u>	WWIS		lot 41 ON	-/0.0	-8.32	<u>32</u>
<u>7</u>	WWIS		WATERLOO ON	-/0.0	-7.75	<u>35</u>
<u>8</u>	EHS		50 Wilmot Line Waterloo ON	-/0.0	-5.57	<u>37</u>
<u>9</u>	WWIS		WATERLOO ON	-/0.0	-12.90	<u>37</u>
<u>10</u>	CA	WATERLOO GOLF ACADEMY	100 WILMOT LINE, LOT 41, GCT WATERLOO CITY ON	-/0.0	-9.56	<u>45</u>
<u>10</u>	GEN	Waterloo Golf Academy	100 Wilmot Line Waterloo ON N2J 3Z4	-/0.0	-9.56	<u>45</u>
<u>10</u>	GEN	Waterloo Golf Academy	100 Wilmot Line Waterloo ON N2J 3Z4	-/0.0	-9.56	<u>46</u>
<u>10</u>	GEN	WATERLOO GOLF ACADEMY	100 WILMOT LINE WATERLOO ON N2J 3Z4	-/0.0	-9.56	<u>46</u>
<u>10</u>	GEN	WATERLOO GOLF ACADEMY	LOT 41 GCT WATERLOO ON N2J 3Z4	-/0.0	-9.56	<u>46</u>
<u>10</u>	GEN	Waterloo Golf Academy	100 Wilmot Line Waterloo ON	-/0.0	-9.56	<u>47</u>
<u>11</u>	FST	COSTCO WHOLESALE CANADA LTD.	930 ERB ST W WATERLOO ON N2J 3Z4	-/0.0	1.01	<u>47</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
<u>11</u>	FST	COSTCO WHOLESALE CANADA LTD.	930 ERB ST W WATERLOO ON N2J 3Z4	-/0.0	1.01	<u>47</u>
<u>11</u>	FST	COSTCO WHOLESALE CANADA LTD.	930 ERB ST W WATERLOO ON N2J 3Z4	-/0.0	1.01	<u>48</u>
<u>12</u>	EHS		930 Erb St W Waterloo ON	-/0.0	-1.32	<u>48</u>
<u>12</u>	EHS		930 Erb St W Waterloo ON N2J 3Z4	-/0.0	-1.32	<u>48</u>
<u>13</u>	ECA	Costco Wholesale Canada Ltd.	924 & 930 Erb Street West Waterloo ON	-/0.0	-1.35	<u>48</u>
<u>13</u>	ECA	West Waterloo Retail GP Limited	930 Erb Street West City of Waterloo ON	-/0.0	-1.35	<u>49</u>
<u>14</u>	EHS		928 Erb Street West Waterloo ON N2J 3Z4	-/0.0	0.63	<u>49</u>
<u>15</u>	WWIS		ON	-/0.0	-6.05	<u>49</u>
<u>16</u>	BORE		ON	-/0.0	4.64	<u>50</u>
<u>17</u>	GEN	Rice Commercial Group Limited	930 Erb Street Waterloo ON	-/0.0	-4.29	<u>50</u>
<u>18</u>	BORE		ON	-/0.0	1.98	<u>51</u>
<u>19</u>	WWIS		lot 42 WATERLOO ON	-/0.0	-6.26	<u>51</u>
<u>20</u>	WWIS		lot 41 ON	-/0.0	-6.10	<u>53</u>
<u>21</u>	BORE		ON	-/0.0	4.63	<u>57</u>
<u>22</u>	BORE		ON	-/0.0	3.51	<u>58</u>
<u>23</u>	BORE		ON	-/0.0	3.46	<u>58</u>
<u>24</u>	SPL	The Regional Municipality of Waterloo	990 Erb St W Waterloo ON	-/0.0	2.10	<u>59</u>

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
25	WWIS		Waterloo ON	N/0.4	-18.10	59
26	WWIS		WATERLOO ON	E/4.3	-5.64	61
27	CA	R.M. OF WATERLOO	ERB ST.W/WILMOT LINE WATERLOO CITY ON	S/8.9	-0.57	63
28	WWIS		Kitchener ON	NNW/10.3	-11.20	63
29	WWIS		Kitchener ON	WNW/14.7	-6.08	65
30	WWIS		WATERLOO ON	S/16.0	0.03	67
31	WWIS		Waterloo ON	E/17.4	-6.15	69
32	WWIS		WATERLOO ON	SE/18.1	-4.64	70
33	WWIS		Kitchener ON	NW/18.2	-4.29	72
34	WWIS		lot 42 WATERLOO ON	N/40.2	-17.21	74
35	EHS		930 Erb Street West Waterloo ON N2J 3Z4	SE/47.2	-5.09	76
36	SCT	HERGOTT CIDER MILL	928 ERB ST W WATERLOO ON N2J 3Z4	ESE/55.2	-7.56	77
36	SCT	HERGOTT CIDER MILL	928 ERB ST W WATERLOO ON N2J 3Z4	ESE/55.2	-7.56	77
36	SCT	Hergott Cider Mill & Products	928 Erb St W Waterloo ON N2J 3Z4	ESE/55.2	-7.56	77
36	SCT	HERGOTT CIDER MILL	928 Erb St W Kitchener ON N2J 3Z4	ESE/55.2	-7.56	78
37	WWIS		Waterloo ON	WNW/60.3	-4.81	78
38	WWIS		WATERLOO ON	N/72.8	-21.55	80
39	WWIS		lot 42 Waterloo ON	NW/82.3	-2.67	83
40	WWIS		lot 41 ON	SSE/90.1	-3.36	84
41	PINC		243 BUTTONBUSH STREET, WATERLOO ON	WNW/93.7	-4.01	87
41	SPL		243 Buttonbush Street, Waterloo Waterloo ON	WNW/93.7	-4.01	87
42	PINC		249 BUTTONBUSH STREET, WATERLOO ON	NW/104.1	-3.17	88
43	SPL		249 Button Bush Waterloo ON	NW/113.6	-3.48	88

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
44	GEN	TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON	S/114.6	-6.99	89
44	GEN	University of Waterloo	1001 Erb's Rd Wilmot Township ON	S/114.6	-6.99	89
44	GEN	University of Waterloo	1001 Erb's Rd Wilmot Township ON	S/114.6	-6.99	89
44	GEN	The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	S/114.6	-6.99	89
44	GEN	The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	S/114.6	-6.99	90
44	GEN	TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON N2J 3Z4	S/114.6	-6.99	90
44	GEN	TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON	S/114.6	-6.99	91
44	GEN	The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON	S/114.6	-6.99	91
44	GEN	TOROMONT ENERGY	1001 ERB STREET WEST WATERLOO ON N2J 3Z4	S/114.6	-6.99	91
44	GEN	University of Waterloo	1001 Erb's Rd Wilmot Township ON	S/114.6	-6.99	92
44	GEN	University of Waterloo	1001 Erb's Rd Wilmot Township ON N2J 3Z4	S/114.6	-6.99	92
44	GEN	The Regional Municipality of Waterloo Transportation & Environmental Services	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	S/114.6	-6.99	92
44	GEN	The Regional Municipality of Waterloo Transportation & Environmental Services	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	S/114.6	-6.99	92
44	GEN	University of Waterloo	1001 Erb's Rd Wilmot Township ON N2J 3Z4	S/114.6	-6.99	93
44	GEN	TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON	S/114.6	-6.99	93
44	GEN	The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	S/114.6	-6.99	93
44	GEN	TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON N2J 3Z4	S/114.6	-6.99	94
44	GEN	TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON	S/114.6	-6.99	94
44	GEN	The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	S/114.6	-6.99	95
44	GEN	TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON N2J 3Z4	S/114.6	-6.99	95
44	GEN	University of Waterloo	1001 Erb's Rd Wilmot Township ON	S/114.6	-6.99	95
44	GEN	University of Waterloo	1001 Erb's Rd Wilmot Township ON	S/114.6	-6.99	95
44	GEN	University of Waterloo	1001 Erb's Rd Wilmot Township ON	S/114.6	-6.99	96
44	GEN	TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON	S/114.6	-6.99	96
44	GEN	The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	S/114.6	-6.99	96

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
45	CA	R.M. OF WATERLOO	FORCEMAIN FORM WATERLOO LANDFL WATERLOO CITY ON	ESE/120.1	-10.13	97
45	CA	R.M. OF WATERLOO STORMWATER MANAGEMENT	N. AREA OF WATERLOO LANDFILL WATERLOO CITY ON	ESE/120.1	-10.13	97
45	CA	WATERLOO CITY	WATERLOO LANDFILL SITE - WWTP WATERLOO CITY ON	ESE/120.1	-10.13	97
45	CA	R.M. OF WATERLOO	RR #9, WATERLOO L-FILL SITE WATERLOO CITY ON	ESE/120.1	-10.13	9
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	ESE/120.1	-10.13	98
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	ESE/120.1	-10.13	99
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	ESE/120.1	-10.13	100
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	ESE/120.1	-10.13	100
45	WDS	WATERLOO LANDFILL SITE	(ERB ST. W.) TOWNSHIP OF WATERLOO ON	ESE/120.1	-10.13	101
45	WDS	WATERLOO LANDFILL SITE	(ERB ST. W.) TOWNSHIP OF WATERLOO ON	ESE/120.1	-10.13	102
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) WATERLOO, CITY OF ON	ESE/120.1	-10.13	103
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) WATERLOO, CITY OF ON	ESE/120.1	-10.13	103
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) TOWNSHIP OF WATERLOO ON	ESE/120.1	-10.13	104
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) WATERLOO, CITY OF ON	ESE/120.1	-10.13	105
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) WATERLOO, CITY OF ON	ESE/120.1	-10.13	106
45	WDS	WATERLOO LANDFILL SITE	(ERB ST. W.) TOWNSHIP OF WATERLOO ON	ESE/120.1	-10.13	107
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) WATERLOO, CITY OF ON	ESE/120.1	-10.13	107
45	WDS	WATERLOO LANDFILL SITE	(ERB ST. W.) TOWNSHIP OF WATERLOO ON	ESE/120.1	-10.13	108
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	ESE/120.1	-10.13	109
45	WDS	WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	ESE/120.1	-10.13	110
46	WWIS		lot 1 ON	S/209.2	-6.01	110
47	NPRI	REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	114
47	NPRI	REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	114
47	NPRI	REGION OF WATERLOO, WASTE MANAGEMENT DIVISION	925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	115
47	NPRI	REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	115
47	NPRI	REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	116

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>47</u>	NPRI	REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	<u>116</u>
<u>47</u>	NPRI	REGION OF WATERLOO, WASTE MANAGEMENT DIVISION	0 - 925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	<u>116</u>
<u>47</u>	NPRI	REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	<u>117</u>
<u>47</u>	NPRI	REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	<u>118</u>
<u>47</u>	NPRI	Region of Waterloo, Waste Management Division	0 - 925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	<u>119</u>
<u>47</u>	NPRI	REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J 3Z4	SE/214.6	-8.45	<u>119</u>
<u>47</u>	NPRI	REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	<u>119</u>
<u>47</u>	NPRI	REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	SE/214.6	-8.45	<u>120</u>
<u>48</u>	PINC		628 MONTPELLIER DR, WATERLOO ON	ENE/222.7	-21.74	<u>120</u>
<u>48</u>	SPL	Union Gas<UNOFFICIAL>	628 Montpellier dr Waterloo ON	ENE/222.7	-21.74	<u>121</u>
<u>49</u>	WWIS		lot 41 WATERLOO ON	NNW/228.4	-4.48	<u>121</u>

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2014 has found that there are 5 BORE site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	0.0	<u>16</u>
	ON	0.0	<u>18</u>
	ON	0.0	<u>21</u>
	ON	0.0	<u>22</u>
	ON	0.0	<u>23</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 6 CA site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
WATERLOO GOLF ACADEMY	100 WILMOT LINE, LOT 41, GCT WATERLOO CITY ON	0.0	<u>10</u>
R.M. OF WATERLOO	ERB ST.W/WILMOT LINE WATERLOO CITY ON	8.9	<u>27</u>
R.M. OF WATERLOO	RR #9, WATERLOO L-FILL SITE WATERLOO CITY ON	120.1	<u>45</u>
WATERLOO CITY	WATERLOO LANDFILL SITE - WWTP WATERLOO CITY ON	120.1	<u>45</u>
R.M. OF WATERLOO STORMWATER MANAGEMENT	N. AREA OF WATERLOO LANDFILL WATERLOO CITY ON	120.1	<u>45</u>
R.M. OF WATERLOO	FORCEMAIN FORM WATERLOO LANDFL WATERLOO CITY ON	120.1	<u>45</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Nov 2016 has found that there are 2 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Costco Wholesale Canada Ltd.	924 & 930 Erb Street West Waterloo ON	0.0	<u>13</u>
West Waterloo Retail GP Limited	930 Erb Street West City of Waterloo ON	0.0	<u>13</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Aug 2016 has found that there are 5 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	50 Wilmot Line Waterloo ON	0.0	<u>8</u>
	930 Erb St W Waterloo ON	0.0	<u>12</u>
	930 Erb St W Waterloo ON N2J 3Z4	0.0	<u>12</u>
	928 Erb Street West Waterloo ON N2J 3Z4	0.0	<u>14</u>
	930 Erb Street West Waterloo ON N2J 3Z4	47.2	<u>35</u>

FST - Fuel Storage Tank

A search of the FST database, dated Feb 28, 2017 has found that there are 3 FST site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
COSTCO WHOLESALE CANADA LTD.	930 ERB ST W WATERLOO ON N2J 3Z4	0.0	<u>11</u>
COSTCO WHOLESALE CANADA LTD.	930 ERB ST W WATERLOO ON N2J 3Z4	0.0	<u>11</u>
COSTCO WHOLESALE CANADA LTD.	930 ERB ST W WATERLOO ON N2J 3Z4	0.0	<u>11</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Sep 2016 has found that there are 33 GEN site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
GolfNorth Management Corp. Waterloo Golf Academy	100 Wilmot Line RR STN 3 Waterloo Waterloo ON N2J 3Z4	0.0	<u>1</u>
GolfNorth Management Corp. Waterloo Golf Academy	100 Wilmot Line RR STN 3 Waterloo Waterloo ON	0.0	<u>2</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Waterloo Golf Academy	100 Wilmot Line Waterloo ON N2J 3Z4	0.0	<u>10</u>
Waterloo Golf Academy	100 Wilmot Line Waterloo ON N2J 3Z4	0.0	<u>10</u>
WATERLOO GOLF ACADEMY	100 WILMOT LINE WATERLOO ON N2J 3Z4	0.0	<u>10</u>
WATERLOO GOLF ACADEMY	LOT 41 GCT WATERLOO ON N2J 3Z4	0.0	<u>10</u>
Waterloo Golf Academy	100 Wilmot Line Waterloo ON	0.0	<u>10</u>
Rice Commercial Group Limited	930 Erb Street Waterloo ON	0.0	<u>17</u>
TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON	114.6	<u>44</u>
University of Waterloo	1001 Erb's Rd Wilmot Township ON	114.6	<u>44</u>
University of Waterloo	1001 Erb's Rd Wilmot Township ON	114.6	<u>44</u>
The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	114.6	<u>44</u>
The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	114.6	<u>44</u>
TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON N2J 3Z4	114.6	<u>44</u>
TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON	114.6	<u>44</u>
The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON	114.6	<u>44</u>
TOROMONT ENERGY	1001 ERB STREET WEST WATERLOO ON N2J 3Z4	114.6	<u>44</u>
University of Waterloo	1001 Erb's Rd Wilmot Township ON	114.6	<u>44</u>
University of Waterloo	1001 Erb's Rd Wilmot Township ON N2J 3Z4	114.6	<u>44</u>
The Regional Municipality of Waterloo Transportation & Environmental Services	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	114.6	<u>44</u>
The Regional Municipality of Waterloo Transportation & Environmental Services	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	114.6	<u>44</u>
University of Waterloo	1001 Erb's Rd Wilmot Township ON N2J 3Z4	114.6	<u>44</u>
TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON	114.6	<u>44</u>
The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	114.6	<u>44</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON N2J 3Z4	114.6	<u>44</u>
TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON	114.6	<u>44</u>
The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	114.6	<u>44</u>
TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON N2J 3Z4	114.6	<u>44</u>
University of Waterloo	1001 Erb's Rd Wilmot Township ON	114.6	<u>44</u>
University of Waterloo	1001 Erb's Rd Wilmot Township ON	114.6	<u>44</u>
TOROMONT ENERGY LTD.	1001 ERB STREET WEST WATERLOO ON	114.6	<u>44</u>
The Regional Municipality of Waterloo	1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	114.6	<u>44</u>
University of Waterloo	1001 Erb's Rd Wilmot Township ON	114.6	<u>44</u>

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated 1993-2014 has found that there are 13 NPRI site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
REGION OF WATERLOO, WASTE MANAGEMENT DIVISION	925 Erb Street West Waterloo ON N2J3Z4	214.6	<u>47</u>
REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	214.6	<u>47</u>
REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	214.6	<u>47</u>
REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	214.6	<u>47</u>
REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J 3Z4	214.6	<u>47</u>
Region of Waterloo, Waste Management Division	0 - 925 Erb Street West Waterloo ON N2J3Z4	214.6	<u>47</u>
REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	214.6	<u>47</u>
REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	214.6	<u>47</u>
REGION OF WATERLOO, WASTE MANAGEMENT DIVISION	0 - 925 Erb Street West Waterloo ON N2J3Z4	214.6	<u>47</u>
REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	214.6	<u>47</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	214.6	47
REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	214.6	47
REGION OF WATERLOO	925 Erb Street West Waterloo ON N2J3Z4	214.6	47

PINC - TSSA Pipeline Incidents

A search of the PINC database, dated Feb 28, 2017 has found that there are 3 PINC site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	243 BUTTONBUSH STREET, WATERLOO ON	93.7	41
	249 BUTTONBUSH STREET, WATERLOO ON	104.1	42
	628 MONTPELLIER DR, WATERLOO ON	222.7	48

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 4 SCT site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
HERGOTT CIDER MILL	928 Erb St W Kitchener ON N2J 3Z4	55.2	36
HERGOTT CIDER MILL	928 ERB ST W WATERLOO ON N2J 3Z4	55.2	36
HERGOTT CIDER MILL	928 ERB ST W WATERLOO ON N2J 3Z4	55.2	36
Hergott Cider Mill & Products	928 Erb St W Waterloo ON N2J 3Z4	55.2	36

SPL - Ontario Spills

A search of the SPL database, dated 1988-Dec 2016 has found that there are 4 SPL site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
The Regional Municipality of Waterloo	990 Erb St W Waterloo ON	0.0	24
	243 Buttonbush Street, Waterloo Waterloo ON	93.7	41

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	249 Button Bush Waterloo ON	113.6	<u>43</u>
Union Gas<UNOFFICIAL>	628 Montpellier dr Waterloo ON	222.7	<u>48</u>

WDS - Waste Disposal Sites - MOE CA Inventory

A search of the WDS database, dated 1970-Nov 2016 has found that there are 16 WDS site(s) within approximately 0.25 kilometers of the project property.

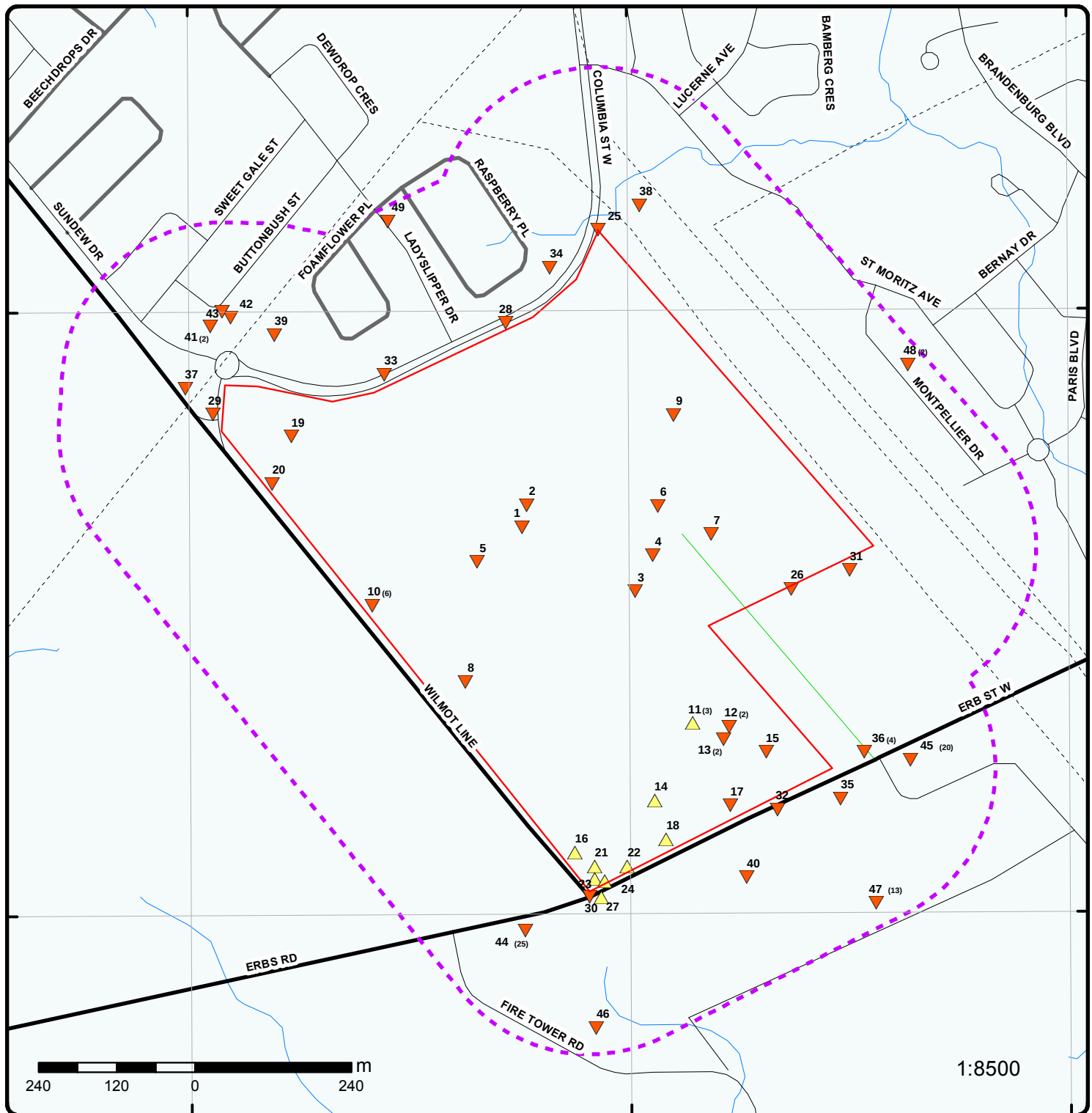
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST W) WATERLOO, CITY OF ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST. W.) TOWNSHIP OF WATERLOO ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST. W.) TOWNSHIP OF WATERLOO ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST W) WATERLOO, CITY OF ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST. W.) TOWNSHIP OF WATERLOO ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST W) WATERLOO, CITY OF ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST W) WATERLOO, CITY OF ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST W) TOWNSHIP OF WATERLOO ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST W) WATERLOO, CITY OF ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST. W.) TOWNSHIP OF WATERLOO ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	120.1	<u>45</u>
WATERLOO LANDFILL SITE	(ERB ST W) CITY OF WATERLOO ON	120.1	<u>45</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30, 2016 has found that there are 24 WWIS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 41 ON	0.0	<u>3</u>
		0.0	<u>4</u>
	WATERLOO ON		
	lot 41 ON	0.0	<u>5</u>
	lot 41 ON	0.0	<u>6</u>
		0.0	<u>7</u>
	WATERLOO ON		
		0.0	<u>9</u>
	WATERLOO ON		
	ON	0.0	<u>15</u>
	lot 42 WATERLOO ON	0.0	<u>19</u>
	lot 41 ON	0.0	<u>20</u>
		0.4	<u>25</u>
	Waterloo ON		
		4.3	<u>26</u>
	WATERLOO ON		
		10.3	<u>28</u>
	Kitchener ON		
		14.7	<u>29</u>
	Kitchener ON		
		16.0	<u>30</u>
	WATERLOO ON		
		17.4	<u>31</u>
	Waterloo ON		
		18.1	<u>32</u>
	WATERLOO ON		
		18.2	<u>33</u>
	Kitchener ON		
	lot 42 WATERLOO ON	40.2	<u>34</u>
		60.3	<u>37</u>
	Waterloo ON		
		72.8	<u>38</u>
	WATERLOO ON		
	lot 42 Waterloo ON	82.3	<u>39</u>
	lot 41 ON	90.1	<u>40</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 1 ON	209.2	<u>46</u>
	lot 41 WATERLOO ON	228.4	<u>49</u>



Map : 0.25 Kilometer Radius

Order No: 20170330028

Address: 100 Wilmot Line, Waterloo, ON



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



Aerial

Address: 100 Wilmot Line, Waterloo, ON

Source: ESRI World Imagery

Order No: 20170330028

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



© ERIS Information Limited Partnership



Topographic Map

Address: 100 Wilmot Line, Waterloo, ON

Source: ESRI World Topographic Map

Order No: 20170330028



© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
<u>1</u>	1 of 1	-/0.0	397.8	GolfNorth Management Corp. Waterloo Golf Academy 100 Wilmot Line RR STN 3 Waterloo Waterloo ON N2J 3Z4	GEN
PO Box Num: Status: Registered Country: Canada Generator #: ON5962225 Approval Yrs:: As of Sep 2016 SIC Code: SIC Description:					
--Details-- Waste Code: 252 L Waste Description: Waste crankcase oils and lubricants					
<u>2</u>	1 of 1	-/0.0	397.1	GolfNorth Management Corp. Waterloo Golf Academy 100 Wilmot Line RR STN 3 Waterloo Waterloo ON	GEN
PO Box Num: Status: Country: Generator #: ON5962225 Approval Yrs:: As of May 2015 SIC Code: SIC Description:					
--Details-- Waste Code: 252 Waste Description: Waste crankcase oils and lubricants					
<u>3</u>	1 of 1	-/0.0	394.3	lot 41 ON	WWIS
Well ID: 6507781 Construction Date:: Primary Water Use:: Domestic Sec. Water Use:: Final Well Status:: Water Supply Specific Capacity:: Municipality: WATERLOO CITY (WATERLOO TWP) County: WATERLOO Lot: 041 Concession: Concession Name: GCT Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::					
Bore Hole Information -- Bore Hole ID: 10458983 DP2BR: Code OB: 0					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Code OB Description:		Overburden			
Open Hole:					
Date Completed:		20-APR-95			
Remarks:					
Zone:		17			
East 83:		533723			
North 83:		4810442			
UTMRC:		3			
UTMRC Description:		margin of error : 10 - 30 m			
Location Method:		gps			
Org CS:					
Elevation:		395.81			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		932584963			
Layer:		1			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:		QUICKSAND			
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932584964			
Layer:		2			
General Color:					
Most Common Material:		SAND			
Other Materials:		QUICKSAND			
Other Materials:					
Formation Top Depth:		20			
Formation End Depth:		120			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932584965			
Layer:		3			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		120			
Formation End Depth:		200			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932584966			
Layer:		4			
General Color:					
Most Common Material:		CLAY			
Other Materials:		SAND			
Other Materials:					
Formation Top Depth:		200			
Formation End Depth:		240			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932584967			
Layer:		5			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		240			
Formation End Depth:		276			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932584968			
Layer:		6			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:		SAND			
Other Materials:		GRAVEL			
Formation Top Depth:		276			
Formation End Depth:		280			
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		933209408			
Layer:		1			
Plug From:		0			
Plug To:		20			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		966507781			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		11007553			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930744304			
Layer:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		276			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
Casing ID:		930744305			
Layer:		2			
Open Hole or Material:					
Depth From:					
Depth To:		280			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		933385102			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Layer:		1			
Slot:		016			
Screen Top Depth:		271			
Screen End Depth:		275			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		6			
--		--			
Well Yield Testing					
--		--			
Pump Test ID:		996507781			
Pump Set At:					
Static Level:		190			
Final Level After Pumping:		270			
Recommended Pump Depth:		265			
Pumping Rate:		20			
Flowing Rate:					
Recommended Pump Rate:		20			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:		1			
Pumping Duration HR:		4			
Pumping Duration MIN:		0			
Flowing:		N			
--		--			
Draw Down & Recovery					
--		--			
Pump Test Detail ID:		934346182			
Pump Test ID:		996507781			
Test Type:					
Test Duration:		15			
Test Level:		240			
Test Level UOM:		ft			
--		--			
Pump Test Detail ID:		934604684			
Pump Test ID:		996507781			
Test Type:					
Test Duration:		30			
Test Level:		240			
Test Level UOM:		ft			
--		--			
Pump Test Detail ID:		934859428			
Pump Test ID:		996507781			
Test Type:					
Test Duration:		45			
Test Level:		240			
Test Level UOM:		ft			
--		--			
Pump Test Detail ID:		935124203			
Pump Test ID:		996507781			
Test Type:					
Test Duration:		60			
Test Level:		240			
Test Level UOM:		ft			
--		--			
--		--			
Water Details					
--		--			
Water ID:		933946255			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		276			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Water Found Depth UOM:		ft			
--		--			
--		--			
4	1 of 1	-0.0	391.2	WATERLOO ON	WWIS
Well ID:	7217850			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Test Hole			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Test Hole			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	WATERLOO CITY (WATERLOO TWP)			UTM Reliability::	
County:	WATERLOO				
Bore Hole Information					
--	--				
Bore Hole ID:	1004721973				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	22-SEP-13				
Remarks:					
Zone:	17				
East 83:	533750				
North 83:	4810497				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Overburden and Bedrock Materials Interval					
--	--				
Formation ID:	1005102468				
Layer:					
General Color:					
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:					
Formation End Depth:					
Formation End Depth UOM:	ft				
--	--				
Annular Space/Abandonment Sealing Record					
--	--				
Plug ID:	1005102475				
Layer:	1				
Plug From:					
Plug To:					
Plug Depth UOM:	ft				
--	--				
Plug ID:	1005102476				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Layer:		2			
Plug From:		0			
Plug To:		19			
Plug Depth UOM:		ft			
--		--			
Plug ID:		1005102477			
Layer:		3			
Plug From:		19			
Plug To:		30			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1005102474			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1005102467			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1005102471			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		20			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1005102472			
Layer:		1			
Slot:		10			
Screen Top Depth:		20			
Screen End Depth:		30			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2.375			
--		--			
Hole Diameter					
--		--			
Hole ID:		1005102469			
Diameter:		8.5			
Depth From:		0			
Depth To:		30			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--		--			
--		--			
5	1 of 1	-/0.0	398.0	lot 41 ON	WWIS
Well ID:	6508094			Lot:	041

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Construction Date::				Concession:	
Primary Water Use::	Public			Concession Name:	GCT
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Water Supply			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	WATERLOO CITY (WATERLOO TWP)			UTM Reliability::	
County:	WATERLOO				
Bore Hole Information					
--		--			
Bore Hole ID:		10459296			
DP2BR:					
Code OB:		0			
Code OB Description:		Overburden			
Open Hole:					
Date Completed:		05-JUN-97			
Remarks:					
Zone:		17			
East 83:		533481			
North 83:		4810487			
UTMRC:		3			
UTMRC Description:		margin of error : 10 - 30 m			
Location Method:		gps			
Org CS:					
Elevation:		399.3			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock					
Materials Interval					
--		--			
Formation ID:		932586632			
Layer:		1			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:		SANDY			
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		12			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586633			
Layer:		2			
General Color:		GREY			
Most Common Material:		SAND			
Other Materials:		GRAVEL			
Other Materials:		STONES			
Formation Top Depth:		12			
Formation End Depth:		29			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586634			
Layer:		3			
General Color:		GREY			
Most Common Material:		GRAVEL			
Other Materials:		STONES			
Other Materials:					
Formation Top Depth:		29			
Formation End Depth:		74			
Formation End Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Formation ID:		932586635			
Layer:		4			
General Color:		GREY			
Most Common Material:		CLAY			
Other Materials:		STONES			
Other Materials:					
Formation Top Depth:		74			
Formation End Depth:		124			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586636			
Layer:		5			
General Color:		GREY			
Most Common Material:		HARDPAN			
Other Materials:		STONES			
Other Materials:					
Formation Top Depth:		124			
Formation End Depth:		142			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586637			
Layer:		6			
General Color:		GREY			
Most Common Material:		SAND			
Other Materials:		GRAVEL			
Other Materials:					
Formation Top Depth:		142			
Formation End Depth:		155			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586638			
Layer:		7			
General Color:		GREY			
Most Common Material:		HARDPAN			
Other Materials:		STONES			
Other Materials:					
Formation Top Depth:		155			
Formation End Depth:		239			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586639			
Layer:		8			
General Color:		BROWN			
Most Common Material:		SILT			
Other Materials:		SANDY			
Other Materials:		STONES			
Formation Top Depth:		239			
Formation End Depth:		279			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586640			
Layer:		9			
General Color:		BROWN			
Most Common Material:		MEDIUM GRAVEL			
Other Materials:		SAND			
Other Materials:					
Formation Top Depth:		279			
Formation End Depth:		290			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586641			
Layer:		10			
General Color:		GREY			
Most Common Material:		SAND			
Other Materials:		SILTY			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Other Materials:		STONES			
Formation Top Depth:		290			
Formation End Depth:		302			
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		933209602			
Layer:		1			
Plug From:		0			
Plug To:		272			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		966508094			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		11007866			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930744743			
Layer:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		282			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
Casing ID:		930744744			
Layer:		2			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		290			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
Casing ID:		930744745			
Layer:		3			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		302			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		933385203			
Layer:		1			
Slot:		020			
Screen Top Depth:		282			
Screen End Depth:		290			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		6			
--		--			
Well Yield Testing					
--		--			
Pump Test ID:		996508094			
Pump Set At:					
Static Level:		187			
Final Level After Pumping:					
Recommended Pump Depth:		270			
Pumping Rate:		6			
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:		1			
Pumping Duration HR:		6			
Pumping Duration MIN:		0			
Flowing:		N			
--		--			
Draw Down & Recovery					
--		--			
Pump Test Detail ID:		934605243			
Pump Test ID:		996508094			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		205			
Test Level UOM:		ft			
--		--			
Pump Test Detail ID:		934859962			
Pump Test ID:		996508094			
Test Type:		Recovery			
Test Duration:		45			
Test Level:		195			
Test Level UOM:		ft			
--		--			
Pump Test Detail ID:		935124317			
Pump Test ID:		996508094			
Test Type:		Recovery			
Test Duration:		60			
Test Level:		187			
Test Level UOM:		ft			
--		--			
Water Details					
--		--			
Water ID:		933946558			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		280			
Water Found Depth UOM:		ft			
--		--			
--		--			
<u>6</u>	1 of 1	-/0.0	391.8	lot 41 ON	WWIS
Well ID:	6508344			Lot:	041
Construction Date::				Concession:	
Primary Water Use::	Domestic			Concession Name:	GCT

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Sec. Water Use:: Final Well Status:: Specific Capacity:: Municipality: County:	Commerical Water Supply WATERLOO CITY (WATERLOO TWP) WATERLOO			Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::	
Bore Hole Information					
--	--				
Bore Hole ID:	10459577				
DP2BR:	416				
Code OB:	r				
Code OB Description:	Bedrock				
Open Hole:					
Date Completed:	02-OCT-98				
Remarks:					
Zone:	17				
East 83:	533757.6				
North 83:	4810573				
UTMRC:	1				
UTMRC Description:	margin of error : < 3 m				
Location Method:	gps				
Org CS:					
Elevation:	392.14				
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Overburden and Bedrock Materials Interval					
--	--				
Formation ID:	932876297				
Layer:	1				
General Color:	GREY				
Most Common Material:	CLAY				
Other Materials:	SANDY				
Other Materials:	STONES				
Formation Top Depth:	0				
Formation End Depth:	192				
Formation End Depth UOM:	ft				
--	--				
Formation ID:	932876298				
Layer:	2				
General Color:	GREY				
Most Common Material:	HARDPAN				
Other Materials:	STONES				
Other Materials:	CLAY				
Formation Top Depth:	192				
Formation End Depth:	346				
Formation End Depth UOM:	ft				
--	--				
Formation ID:	932876299				
Layer:	3				
General Color:	GREY				
Most Common Material:	HARDPAN				
Other Materials:	STONES				
Other Materials:					
Formation Top Depth:	346				
Formation End Depth:	416				
Formation End Depth UOM:	ft				
--	--				
Formation ID:	932876300				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Layer:		4			
General Color:		GREY			
Most Common Material:		LIMESTONE			
Other Materials:					
Other Materials:					
Formation Top Depth:		416			
Formation End Depth:		517			
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		933209759			
Layer:		1			
Plug From:		0			
Plug To:		419			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		966508344			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		11008147			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930745104			
Layer:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		419			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
Casing ID:		930745105			
Layer:		2			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		517			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
Well Yield Testing					
--		--			
Pump Test ID:		996508344			
Pump Set At:					
Static Level:		185			
Final Level After Pumping:					
Recommended Pump Depth:		320			
Pumping Rate:		20			
Flowing Rate:					
Recommended Pump Rate:		15			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Water State After Test:		CLEAR			
Pumping Test Method:	1				
Pumping Duration HR:	2				
Pumping Duration MIN:	0				
Flowing:	N				
--	--				
Draw Down & Recovery					
--	--				
Pump Test Detail ID:	934346752				
Pump Test ID:	996508344				
Test Type:	Recovery				
Test Duration:	15				
Test Level:	185				
Test Level UOM:	ft				
--	--				
--	--				
Water Details					
--	--				
Water ID:	933946784				
Layer:	1				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	510				
Water Found Depth UOM:	ft				
--	--				
--	--				
7	1 of 1	-/0.0	392.4	WATERLOO ON	WWIS
Well ID:	7247225			Lot:	
Construction Date::				Concession:	
Primary Water Use::				Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Abandoned-Other			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	WATERLOO CITY (WATERLOO TWP)			UTM Reliability::	
County:	WATERLOO				
Bore Hole Information					
--	--				
Bore Hole ID:	1005640938				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	12-AUG-15				
Remarks:					
Zone:	17				
East 83:	533840				
North 83:	4810530				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Overburden and Bedrock Materials Interval					
--	--	--	--	--	--
Formation ID:		1005709401			
Layer:					
General Color:					
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:					
Formation End Depth:					
Formation End Depth UOM:	m				
--	--	--	--	--	--
Annular Space/Abandonment Sealing Record					
--	--	--	--	--	--
Plug ID:		1005709408			
Layer:		1			
Plug From:		0			
Plug To:		4.6			
Plug Depth UOM:	m				
--	--	--	--	--	--
Plug ID:		1005709407			
Layer:		1			
Plug From:		0			
Plug To:		4.6			
Plug Depth UOM:	m				
--	--	--	--	--	--
Method of Construction & Well Use					
--	--	--	--	--	--
Method Construction ID:		1005709406			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
--	--	--	--	--	--
Pipe Information					
--	--	--	--	--	--
Pipe ID:		1005709400			
Casing Number:		0			
Comment:					
Alt Name:					
--	--	--	--	--	--
Construction Record - Casing					
--	--	--	--	--	--
Casing ID:		1005709404			
Layer:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:	cm				
Casing Depth UOM:	m				
--	--	--	--	--	--
--	--	--	--	--	--
Construction Record - Screen					
--	--	--	--	--	--
Screen ID:		1005709405			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:	m				
Screen Diameter UOM:	cm				
Screen Diameter:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Hole Diameter					
--		--			
Hole ID:		1005709402			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			
<u>8</u>	1 of 1	-/0.0	394.6	50 Wilmot Line Waterloo ON	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: 20130527024 Addit. Info Ordered:: Report Date: 31-MAY-13 Report Type: Standard Report Search Radius (km): .25					
<u>9</u>	1 of 1	-/0.0	387.2	WATERLOO ON	WWIS
Well ID:	7140711			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Monitoring and Test Hole			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Observation Wells			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	WATERLOO CITY			UTM Reliability::	
County:	WATERLOO				
Bore Hole Information					
--		--			
Bore Hole ID:	1003489962				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	02-FEB-10				
Remarks:					
Zone:	17				
East 83:	533782				
North 83:	4810712				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--	--	--	--	--	--
Annular Space/Abandonment Sealing Record					
--	--	--	--	--	--
Plug ID:		1003489966			
Layer:					
Plug From:					
Plug To:					
Plug Depth UOM:					
--	--	--	--	--	--
Method of Construction & Well Use					
--	--	--	--	--	--
Method Construction ID:		1003489965			
Method Construction Code:					
Method Construction:					
Other Method Construction:		AUGER			
--	--	--	--	--	--
Pipe Information					
--	--	--	--	--	--
Pipe ID:		1003489967			
Casing Number:		0			
Comment:					
Alt Name:					
--	--	--	--	--	--
Construction Record - Casing					
--	--	--	--	--	--
Casing ID:		1003489969			
Layer:					
Open Hole or Material:		PLASTIC			
Depth From:					
Depth To:		1.5			
Casing Diameter:					
Casing Diameter UOM:					
Casing Depth UOM:		m			
--	--	--	--	--	--
--	--	--	--	--	--
Construction Record - Screen					
--	--	--	--	--	--
Screen ID:		1003489968			
Layer:					
Slot:					
Screen Top Depth:		1.5			
Screen End Depth:		4.5			
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:					
Screen Diameter:					
--	--	--	--	--	--
Well Yield Testing					
--	--	--	--	--	--
Pump Test ID:		1003489970			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:					
Rate UOM:					
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Flowing:					
--		--			
Hole Diameter					
--		--			
Hole ID:		1003489964			
Diameter:		20			
Depth From:					
Depth To:		4.5			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			
Bore Hole ID:		1003489953			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		02-FEB-10			
Remarks:					
Zone:		17			
East 83:		533840			
North 83:		4810530			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1003489957			
Layer:					
Plug From:					
Plug To:					
Plug Depth UOM:					
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1003489956			
Method Construction Code:					
Method Construction:					
Other Method Construction:		AUGER			
--		--			
Pipe Information					
--		--			
Pipe ID:		1003489958			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1003489960			
Layer:					
Open Hole or Material:		PLASTIC			
Depth From:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Depth To:		1.5			
Casing Diameter:					
Casing Diameter UOM:					
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003489959			
Layer:					
Slot:					
Screen Top Depth:		1.5			
Screen End Depth:		4.5			
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:					
Screen Diameter:					
--		--			
Well Yield Testing					
--		--			
Pump Test ID:		1003489961			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:					
Rate UOM:					
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
--		--			
Hole Diameter					
--		--			
Hole ID:		1003489955			
Diameter:		20			
Depth From:					
Depth To:		4.5			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			
Bore Hole ID:		1003489944			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		02-FEB-10			
Remarks:					
Zone:		17			
East 83:		533668			
North 83:		4810604			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--	--				
Annular Space/Abandonment Sealing Record					
--	--				
Plug ID:		1003489948			
Layer:					
Plug From:					
Plug To:					
Plug Depth UOM:					
--	--				
Method of Construction & Well Use					
--	--				
Method Construction ID:		1003489947			
Method Construction Code:					
Method Construction:					
Other Method Construction:		AUGER			
--	--				
Pipe Information					
--	--				
Pipe ID:		1003489949			
Casing Number:		0			
Comment:					
Alt Name:					
--	--				
Construction Record - Casing					
--	--				
Casing ID:		1003489951			
Layer:					
Open Hole or Material:		PLASTIC			
Depth From:					
Depth To:		1.5			
Casing Diameter:					
Casing Diameter UOM:					
Casing Depth UOM:		m			
--	--				
--	--				
Construction Record - Screen					
--	--				
Screen ID:		1003489950			
Layer:					
Slot:					
Screen Top Depth:		1.5			
Screen End Depth:		4.5			
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:					
Screen Diameter:					
--	--				
Well Yield Testing					
--	--				
Pump Test ID:		1003489952			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:					
Rate UOM:					
Water State After Test Code:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
--		--			
Hole Diameter					
--		--			
Hole ID:		1003489946			
Diameter:		20			
Depth From:					
Depth To:		4.5			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			
Bore Hole ID:		1003489935			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		02-FEB-10			
Remarks:					
Zone:		17			
East 83:		533711			
North 83:		4810570			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Annular Space/Abandonment					
Sealing Record					
--		--			
Plug ID:		1003489939			
Layer:					
Plug From:					
Plug To:					
Plug Depth UOM:					
--		--			
Method of Construction & Well					
Use					
--		--			
Method Construction ID:		1003489938			
Method Construction Code:					
Method Construction:					
Other Method Construction:		AUGER			
--		--			
Pipe Information					
--		--			
Pipe ID:		1003489940			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Casing ID:		1003489942			
Layer:					
Open Hole or Material:		PLASTIC			
Depth From:					
Depth To:		1.5			
Casing Diameter:					
Casing Diameter UOM:					
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003489941			
Layer:					
Slot:					
Screen Top Depth:		1.5			
Screen End Depth:		4.5			
Screen Material:					
Screen Depth UOM:		m			
Screen Diameter UOM:					
Screen Diameter:					
--		--			
Well Yield Testing					
--		--			
Pump Test ID:		1003489943			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:					
Rate UOM:					
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:					
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
--		--			
Hole Diameter					
--		--			
Hole ID:		1003489937			
Diameter:		20			
Depth From:					
Depth To:		4.5			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			
Bore Hole ID:		1002943112			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		02-FEB-10			
Remarks:					
Zone:		17			
East 83:		533711			
North 83:		4810570			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:		392.86			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1003259837			
Layer:		1			
General Color:		BROWN			
Most Common Material:		TOPSOIL			
Other Materials:		SAND			
Other Materials:		SOFT			
Formation Top Depth:		0			
Formation End Depth:		1			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1003259838			
Layer:		2			
General Color:		BROWN			
Most Common Material:		SAND			
Other Materials:		SILT			
Other Materials:		SOFT			
Formation Top Depth:		1			
Formation End Depth:		4.5			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1003259840			
Layer:		1			
Plug From:		0			
Plug To:		.31			
Plug Depth UOM:		m			
--		--			
Plug ID:		1003259841			
Layer:		2			
Plug From:		.31			
Plug To:		1.2			
Plug Depth UOM:		m			
--		--			
Plug ID:		1003259842			
Layer:		3			
Plug From:		1.2			
Plug To:		4.5			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1003259847			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1003259836			
Casing Number:		0			
Comment:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1003259843			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		1.5			
Casing Diameter:		5.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003259844			
Layer:		1			
Slot:		10			
Screen Top Depth:					
Screen End Depth:					
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		6.03			
--		--			
Hole Diameter					
--		--			
Hole ID:		1003259839			
Diameter:		20			
Depth From:		0			
Depth To:		4.5			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			
10	1 of 6	-/0.0	390.6	WATERLOO GOLF ACADEMY 100 WILMOT LINE, LOT 41, GCT WATERLOO CITY ON	CA
Certificate #: 3-1437-94- Application Year: 94 Issue Date: 11/23/1994 Approval Type: Municipal sewage Status: Approved Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
10	2 of 6	-/0.0	390.6	Waterloo Golf Academy 100 Wilmot Line Waterloo ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON5993979					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Approval Yrs:: 2009 SIC Code: 713910 SIC Description: Golf Courses and Country Clubs --Details-- Waste Code: 213 Waste Description: PETROLEUM DISTILLATES Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS					
10	3 of 6	-/0.0	390.6	Waterloo Golf Academy 100 Wilmot Line Waterloo ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON5993979 Approval Yrs:: 2010 SIC Code: 713910 SIC Description: Golf Courses and Country Clubs --Details-- Waste Code: 213 Waste Description: PETROLEUM DISTILLATES Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS					
10	4 of 6	-/0.0	390.6	WATERLOO GOLF ACADEMY 100 WILMOT LINE WATERLOO ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON2207200 Approval Yrs:: 97,98 SIC Code: 9699 SIC Description: OTHER AMUSE./REC. --Details-- Waste Code: 213 Waste Description: PETROLEUM DISTILLATES					
10	5 of 6	-/0.0	390.6	WATERLOO GOLF ACADEMY LOT 41 GCT WATERLOO ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON2207200 Approval Yrs:: 99,00,01 SIC Code: 9699 SIC Description: OTHER AMUSE./REC.					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--Details--					
Waste Code:		213			
Waste Description:		PETROLEUM DISTILLATES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
10	6 of 6	-/0.0	390.6	Waterloo Golf Academy 100 Wilmot Line Waterloo ON	GEN
PO Box Num:					
Status:					
Country:					
Generator #:		ON5993979			
Approval Yrs::		03,04,05,06,07,08			
SIC Code:		713910			
SIC Description:		Golf Courses & Country Clubs			
--Details--					
Waste Code:		213			
Waste Description:		PETROLEUM DISTILLATES			
Waste Code:		252			
Waste Description:		WASTE OILS & LUBRICANTS			
11	1 of 3	-/0.0	401.1	COSTCO WHOLESALE CANADA LTD. 930 ERB ST W WATERLOO ON N2J 3Z4	FST
Instance No:		64730625			
Cont Name:					
Instance Type:		FS Liquid Fuel Tank			
Fuel Type:		Gasoline			
Status:		Active			
Capacity:		100000			
Tank Material:		Fiberglass (FRP)			
Corrosion Protection:		Fiberglass			
Tank Type:		Double Wall UST			
Install Year:		2016			
Parent Facility Type:		FS Gasoline Station - Card/Keylock			
Facility Type:		FS Liquid Fuel Tank			
11	2 of 3	-/0.0	401.1	COSTCO WHOLESALE CANADA LTD. 930 ERB ST W WATERLOO ON N2J 3Z4	FST
Instance No:		64730627			
Cont Name:					
Instance Type:		FS Liquid Fuel Tank			
Fuel Type:		Gasoline			
Status:		Active			
Capacity:		100000			
Tank Material:		Fiberglass (FRP)			
Corrosion Protection:		Fiberglass			
Tank Type:		Double Wall UST			
Install Year:		2016			
Parent Facility Type:		FS Gasoline Station - Card/Keylock			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Facility Type:		FS Liquid Fuel Tank			
11	3 of 3	-/0.0	401.1	COSTCO WHOLESALE CANADA LTD. 930 ERB ST W WATERLOO ON N2J 3Z4	FST
Instance No:		64730626			
Cont Name:					
Instance Type:		FS Liquid Fuel Tank			
Fuel Type:		Gasoline			
Status:		Active			
Capacity:		100000			
Tank Material:		Fiberglass (FRP)			
Corrosion Protection:		Fiberglass			
Tank Type:		Double Wall UST			
Install Year:		2016			
Parent Facility Type:		FS Gasoline Station - Card/Keylock			
Facility Type:		FS Liquid Fuel Tank			
12	1 of 2	-/0.0	398.8	930 Erb St W Waterloo ON	EHS
Postal Code:					
City:					
Address2:					
Address1:					
Provstate:					
Order No.:		20130404040			
Addit. Info Ordered::					
Report Date:		15-APR-13			
Report Type:		Custom Report			
Search Radius (km):		.25			
12	2 of 2	-/0.0	398.8	930 Erb St W Waterloo ON N2J 3Z4	EHS
Postal Code:					
City:					
Address2:					
Address1:					
Provstate:					
Order No.:		20121017018			
Addit. Info Ordered::					
Report Date:		26-OCT-12			
Report Type:		Custom Report			
Search Radius (km):		.25			
13	1 of 2	-/0.0	398.8	Costco Wholesale Canada Ltd. 924 & 930 Erb Street West Waterloo ON	ECA
Record Type:					
PDF URL:					
Full Address:		924 & 930 Erb Street West City of Waterloo, Regional Municipality of Waterloo			
CofA Number:		1266-9UNJT7			
Date:		3/17/15			
Status:		Approved			
Project Type:		Industrial Sewage Works			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
13	2 of 2	-/0.0	398.8	West Waterloo Retail GP Limited 930 Erb Street West City of Waterloo ON	ECA
Record Type: PDF URL: Full Address: West Waterloo Commercial Centre 930 Erb Street West City of Waterloo, Regional Municipality of Waterloo CofA Number: 4350-9KYLEP Date: 6/24/14 Status: Approved Project Type: Municipal and Private Sewage					
14	1 of 1	-/0.0	400.8	928 Erb Street West Waterloo ON N2J 3Z4	EHS
Postal Code: City: Address2: Address1: Provstate: Order No.: 20091208036 Addit. Info Ordered:: Fire Insur. Maps and/or Site Plans; Title Search; Aerial Photos; Topographical Maps Report Date: 12/17/2009 Report Type: Custom Report Search Radius (km): 0.25					
15	1 of 1	-/0.0	394.1	ON	WWIS
Well ID: 7229906 Construction Date:: Primary Water Use:: Sec. Water Use:: Final Well Status:: Specific Capacity:: Municipality: WATERLOO CITY (WATERLOO TWP) County: WATERLOO Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::					
Bore Hole Information -- Bore Hole ID: 1005171045 DP2BR: Code OB: Code OB Description: Open Hole: Date Completed: 03-SEP-14 Remarks: Zone: 17 East 83: 533924 North 83: 4810196 UTMRC: 4 UTMRC Description: margin of error : 30 m - 100 m Location Method: wwr Org CS: UTM83 Elevation: Elevrc: Elevrc Description: Location Source Date: Source Revision Comment:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Improvement Location Source: Improvement Location Method: Supplier Comment: Spatial Status: -- --					
16	1 of 1	-/0.0	404.8	ON	BORE
Borehole ID: 682538		Type: Borehole			
Use: Geotechnical/Geological Investigation		Status::			
Drill Method:: Power auger		UTM Zone:: 17			
Easting:: 533631		Northing:: 4810041			
Location Accuracy::		Orig. Ground Elev m:: 403			
Elev. Reliability		DEM Ground Elev m:: 404			
Note::		Primary Name::			
Total Depth m:: 6.6		Concession::			
Township::		Municipality:			
Lot::		Static Water Level:: -999.9			
Completion Date:: APR-1963		Sec. Water Use::			
Primary Water Use::					
--Details--					
Stratum ID: 218558015		Top Depth(m): 0.0			
Bottom Depth(m): 0.4		Stratum Desc: SILTY ORGANIC, BROWN TO BLACK			
Stratum ID: 218558016		Top Depth(m): 0.4			
Bottom Depth(m): 1.6		Stratum Desc: FINE, COHESIVE, BROWN, FIRM			
Stratum ID: 218558017		Top Depth(m): 1.6			
Bottom Depth(m): 1.9		Stratum Desc: MEDIUM TO FINE, BROWN, FIRM			
Stratum ID: 218558018		Top Depth(m): 1.9			
Bottom Depth(m): 3.0		Stratum Desc: WETTER THAN PLASTIC LIMIT			
Stratum ID: 218558019		Top Depth(m): 3.0			
Bottom Depth(m): 4.0		Stratum Desc: BROWN, STIFF,			
Stratum ID: 218558020		Top Depth(m): 4.0			
Bottom Depth(m): 4.6		Stratum Desc: MORE PLASTIC, BROWN AND GREY LENSES, FIRM TO STIFF			
Stratum ID: 218558021		Top Depth(m): 4.6			
Bottom Depth(m): 6.1		Stratum Desc: WITH PEBBLES, GREY, FIRM TO STIFF			
Stratum ID: 218558022		Top Depth(m): 6.1			
Bottom Depth(m): 6.6		Stratum Desc: WITH PEBBLES, GREY, FIRM TO STIFF, LESS PLASTIC			
17	1 of 1	-/0.0	395.8	Rice Commercial Group Limited 930 Erb Street Waterloo ON	GEN
PO Box Num: Status: Country: Generator #: ON4739622 Approval Yrs:: As of May 2015 SIC Code: SIC Description:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--Details--					
Waste Code:		251			
Waste Description:		Waste oils/sludges (petroleum based)			
18	1 of 1	-/0.0	402.1	ON	BORE
Borehole ID:	682537			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	533771			Northing::	4810061
Location Accuracy::				Orig. Ground Elev m::	406
Elev. Reliability				DEM Ground Elev m::	402
Note::				Primary Name::	
Total Depth m::	9.6			Concession::	
Township::				Municipality:	
Lot::				Static Water Level::	-999.9
Completion Date::	APR-1963			Sec. Water Use::	
Primary Water Use::					
--Details--					
Stratum ID:	218558008			Top Depth(m):	0.0
Bottom Depth(m):	0.2			Stratum Desc:	SANDY, SILTY, ORGANIC, BLACK
Stratum ID:	218558009			Top Depth(m):	0.2
Bottom Depth(m):	1.5			Stratum Desc:	WITH GRITS, BROWN, WITH LIGHT BROWN FISSURES, STIFF
Stratum ID:	218558010			Top Depth(m):	1.5
Bottom Depth(m):	2.1			Stratum Desc:	WITH GRITS, COHESIVE, BROWN, COMPACT OR STIFF
Stratum ID:	218558011			Top Depth(m):	2.1
Bottom Depth(m):	3.7			Stratum Desc:	SLIGHTLY PLASTIC, BROWN, COMPACT OR STIFF
Stratum ID:	218558012			Top Depth(m):	3.7
Bottom Depth(m):	5.2			Stratum Desc:	FISSURED, BROWN WITH YELLOW BROWN FISSURES, COMPACT TO STIFF
Stratum ID:	218558013			Top Depth(m):	5.2
Bottom Depth(m):	9.1			Stratum Desc:	GREY, WITH PEBBLES, FIRM TO STIFF, WETTER THAN PLASTIC LIMIT
Stratum ID:	218558014			Top Depth(m):	9.1
Bottom Depth(m):	9.6			Stratum Desc:	GREY, FIRM TO STIFF, DILATANT
19	1 of 1	-/0.0	393.9	lot 42 WATERLOO ON	WWIS
Well ID:	6509702			Lot:	042
Construction Date::				Concession:	
Primary Water Use::	Not Used			Concession Name:	GCT
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Test Hole			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	WATERLOO CITY (WATERLOO TWP)			UTM Reliability::	
County:	WATERLOO				
Bore Hole Information					
--		--			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bore Hole ID:		11179228			
DP2BR:					
Code OB:		0			
Code OB Description:		Overburden			
Open Hole:					
Date Completed:		16-JAN-04			
Remarks:					
Zone:		17			
East 83:		533196			
North 83:		4810679			
UTMRC:		3			
UTMRC Description:		margin of error : 10 - 30 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:		394.05			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		932989078			
Layer:		1			
General Color:		BLACK			
Most Common Material:		TOPSOIL			
Other Materials:		STONES			
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		.5			
Formation End Depth UOM:		m			
--		--			
Formation ID:		932989079			
Layer:		2			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:		SILT			
Other Materials:					
Formation Top Depth:		.5			
Formation End Depth:		6			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		933261973			
Layer:		1			
Plug From:		2			
Plug To:		.5			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		966509702			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--		--			
Pipe Information					
--		--			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Pipe ID:		11187747			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930852328			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		2			
Casing Diameter:		5			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		933410786			
Layer:		1			
Slot:		10			
Screen Top Depth:		2			
Screen End Depth:		5			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		5			
--		--			
Hole Diameter					
--		--			
Hole ID:		11313530			
Diameter:		10			
Depth From:		0			
Depth To:		6			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
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20	1 of 1	-0.0	394.0	lot 41 ON	WWIS
Well ID:	6508095			Lot:	041
Construction Date::				Concession:	
Primary Water Use::	Irrigation			Concession Name:	GCT
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Water Supply			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	WATERLOO CITY (WATERLOO TWP)			UTM Reliability::	
County:	WATERLOO				
Bore Hole Information					
--	--				
Bore Hole ID:	10459297				
DP2BR:	428				
Code OB:	r				
Code OB Description:	Bedrock				
Open Hole:					
Date Completed:	26-JUN-97				
Remarks:					
Zone:	17				
East 83:	533166				
North 83:	4810607				
UTMRC:	3				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
UTMRC Description:		margin of error : 10 - 30 m			
Location Method:		gps			
Org CS:					
Elevation:		395.54			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		932586642			
Layer:		1			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		9			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586643			
Layer:		2			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:		SANDY			
Other Materials:					
Formation Top Depth:		9			
Formation End Depth:		14			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586644			
Layer:		3			
General Color:		GREY			
Most Common Material:		CLAY			
Other Materials:		STONES			
Other Materials:					
Formation Top Depth:		14			
Formation End Depth:		53			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586645			
Layer:		4			
General Color:		BROWN			
Most Common Material:		SAND			
Other Materials:		FINE GRAVEL			
Other Materials:					
Formation Top Depth:		53			
Formation End Depth:		61			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586646			
Layer:		5			
General Color:		GREY			
Most Common Material:		HARDPAN			
Other Materials:		SANDY			
Other Materials:					
Formation Top Depth:		61			
Formation End Depth:		124			
Formation End Depth UOM:		ft			
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Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Formation ID:		932586647			
Layer:		6			
General Color:		GREY			
Most Common Material:		SILT			
Other Materials:		SAND			
Other Materials:		STONES			
Formation Top Depth:		124			
Formation End Depth:		209			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586648			
Layer:		7			
General Color:		GREY			
Most Common Material:		SILT			
Other Materials:		CLAY			
Other Materials:		LAYERED			
Formation Top Depth:		209			
Formation End Depth:		343			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586649			
Layer:		8			
General Color:		GREY			
Most Common Material:		HARDPAN			
Other Materials:					
Other Materials:					
Formation Top Depth:		343			
Formation End Depth:		428			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586650			
Layer:		9			
General Color:		BROWN			
Most Common Material:		SHALE			
Other Materials:					
Other Materials:					
Formation Top Depth:		428			
Formation End Depth:		496			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932586651			
Layer:		10			
General Color:		BROWN			
Most Common Material:		LIMESTONE			
Other Materials:					
Other Materials:					
Formation Top Depth:		496			
Formation End Depth:		515			
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		933209603			
Layer:		1			
Plug From:		0			
Plug To:		428			
Plug Depth UOM:		ft			
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Method of Construction & Well Use					
--		--			
Method Construction ID:		966508095			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Pipe Information					
--		--			
Pipe ID:		11007867			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930744746			
Layer:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		429			
Casing Diameter:		8			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
Casing ID:		930744747			
Layer:		2			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		516			
Casing Diameter:		8			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
Well Yield Testing					
--		--			
Pump Test ID:		996508095			
Pump Set At:					
Static Level:		187			
Final Level After Pumping:					
Recommended Pump Depth:		300			
Pumping Rate:		200			
Flowing Rate:					
Recommended Pump Rate:		200			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:		1			
Pumping Duration HR:		6			
Pumping Duration MIN:		0			
Flowing:		N			
--		--			
Draw Down & Recovery					
--		--			
Pump Test Detail ID:		934345610			
Pump Test ID:		996508095			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		195			
Test Level UOM:		ft			
--		--			
Pump Test Detail ID:		934605244			
Pump Test ID:		996508095			
Test Type:		Recovery			
Test Duration:		30			
Test Level:		187			
Test Level UOM:		ft			
--		--			
Pump Test Detail ID:		934859963			
Pump Test ID:		996508095			
Test Type:		Recovery			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Test Duration:		45			
Test Level:		187			
Test Level UOM:		ft			
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--		--			
Water Details					
--		--			
Water ID:		933946559			
Layer:		1			
Kind Code:		3			
Kind:		SULPHUR			
Water Found Depth:		436			
Water Found Depth UOM:		ft			
--		--			
Water ID:		933946560			
Layer:		2			
Kind Code:		4			
Kind:		MINERIAL			
Water Found Depth:					
Water Found Depth UOM:		ft			
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21	1 of 1	-/0.0	404.8	ON	BORE
Borehole ID:	682540			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	533661			Northing::	4810021
Location Accuracy::				Orig. Ground Elev m::	404
Elev. Reliability				DEM Ground Elev m::	405
Note::					
Total Depth m::	18.7			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1963			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218558036			Top Depth(m):	13.7
Bottom Depth(m):	16.5			Stratum Desc:	AS ABOVE
Stratum ID:	218558028			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	SANDY AND SILTY, BROWN TO BLACK
Stratum ID:	218558029			Top Depth(m):	0.3
Bottom Depth(m):	1.5			Stratum Desc:	FINE WITH SOME MEDIUM, BROWN, LOOSE TO COMPACT
Stratum ID:	218558030			Top Depth(m):	1.5
Bottom Depth(m):	3.0			Stratum Desc:	BROWN, COMPACT TO FIRM, FINE, LARGE GRANITE STONES AT 7FT
Stratum ID:	218558031			Top Depth(m):	3.0
Bottom Depth(m):	4.6			Stratum Desc:	SANDY, CLAYEY, WITH STONES BECOMING SANDIER, DENSER, WETTER THAN PLASTIC LIMIT
Stratum ID:	218558032			Top Depth(m):	4.6
Bottom Depth(m):	6.7			Stratum Desc:	WITH PEBBLES, ROWN WITH GREY POCKETS, COMPACT OR STIFF
Stratum ID:	218558033			Top Depth(m):	6.7

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Bottom Depth(m):	9.6			Stratum Desc:	BROWN WITH GREY POCKETS, STIFF, SOME FINE SAND
Stratum ID:	218558034			Top Depth(m):	9.6
Bottom Depth(m):	12.2			Stratum Desc:	SANDY AND CLAYEY, WITH STONES
Stratum ID:	218558035			Top Depth(m):	12.2
Bottom Depth(m):	13.7			Stratum Desc:	WITH GRITS, BROWN, GREY POCKETS, VERY STIFF,
Stratum ID:	218558037			Top Depth(m):	16.5
Bottom Depth(m):	18.7			Stratum Desc:	WITH SILTY SAND LAYERS, BROWN TO LIGHT GREY BROWN DENSE TO VERY DENSE

22	1 of 1	-/0.0	403.6	ON	BORE
Borehole ID:	682536			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	533711			Northing::	4810021
Location Accuracy::				Orig. Ground Elev m::	402
Elev. Reliability Note::				DEM Ground Elev m::	404
Total Depth m::	6.6			Primary Name::	
Township::				Concession::	
Lot::				Municipality:	
Completion Date::	APR-1963			Static Water Level::	-999.9
Primary Water Use::				Sec. Water Use::	
--Details--					
Stratum ID:	218558002			Top Depth(m):	0.0
Bottom Depth(m):	0.3			Stratum Desc:	SANDY, SILTY WITH ORGANIC MATTER, BROWN TO BLACK
Stratum ID:	218558003			Top Depth(m):	0.3
Bottom Depth(m):	1.5			Stratum Desc:	FINE TO COARSE SAND WITH GRITS, SOME CLAY, TILL FORM BROWN-GREY, COMPACT
Stratum ID:	218558004			Top Depth(m):	1.5
Bottom Depth(m):	3.0			Stratum Desc:	BROWN, COMPACT
Stratum ID:	218558005			Top Depth(m):	3.0
Bottom Depth(m):	3.7			Stratum Desc:	BROWN, STIFF
Stratum ID:	218558006			Top Depth(m):	3.7
Bottom Depth(m):	6.1			Stratum Desc:	GREY WITH BROWN POCKETS, FIRM TO STIFF, SOME SAND& PEBBLES
Stratum ID:	218558007			Top Depth(m):	6.1
Bottom Depth(m):	6.6			Stratum Desc:	SLIGHTLY PLASTIC, GREY, FI-RM TO STIFF

23	1 of 1	-/0.0	403.6	ON	BORE
Borehole ID:	682539			Type:	Borehole
Use:	Geotechnical/Geological Investigation			Status::	
Drill Method::	Power auger			UTM Zone::	17
Easting::	533661			Northing::	4810001
Location Accuracy::				Orig. Ground Elev m::	401

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Elev. Reliability Note::			DEM Ground Elev m::	404	
Total Depth m:: 7.5			Primary Name::		
Township::			Concession::		
Lot::			Municipality:		
Completion Date:: APR-1963			Static Water Level::	-999.9	
Primary Water Use::			Sec. Water Use::		
--Details--					
Stratum ID: 218558023			Top Depth(m):	0.0	
Bottom Depth(m): 0.6			Stratum Desc:	SILTY ORGANIC, BROWN TO BLACK	
Stratum ID: 218558024			Top Depth(m):	0.6	
Bottom Depth(m): 2.1			Stratum Desc:	SLIGHTLY PLASTIC, BROWN WITH LIGHT GREY-BROWN FISSURES, SOFT TO FIRM BECOMING STIFF OR COMPACT	
Stratum ID: 218558025			Top Depth(m):	2.1	
Bottom Depth(m): 3.7			Stratum Desc:	FINE SAND, BROWN, COHESIVE STIFF TO COMPACT	
Stratum ID: 218558026			Top Depth(m):	3.7	
Bottom Depth(m): 4.6			Stratum Desc:	SOME CLAY, BROWN CHANGING TO GREY, STIFF OR COMPACT	
Stratum ID: 218558027			Top Depth(m):	4.6	
Bottom Depth(m): 7.5			Stratum Desc:	WITH PEBBLES UP TO 11/2 IN. GREY, FIRM TO STIFF	
24	1 of 1	-/0.0	402.2	The Regional Municipality of Waterloo 990 Erb St W Waterloo ON	SPL
Ref No:		1878-7VALZV			
Contaminant Code:					
Contaminant Name:		CHLORINATED WATER			
Contaminant Quantity:		257.4 m3			
Incident Cause:					
Incident Dt:					
Incident Reason:					
Incident Summary:		Erb St Reservoir: spill 257.4 m3 chlor water to storm sewer			
MOE Reported Dt:		8/26/2009			
Environmental Impact:		Not Anticipated			
Nature of Impact:		Surface Water Pollution			
Receiving Medium:					
SAC Action Class:		Watercourse Spills			
Sector Source Type:					
Receiving Environment:					
Incident Event:					
Site Municipality:		Waterloo			
25	1 of 1	N/0.4	382.0	Waterloo ON	WWIS
Well ID:		7147208		Lot:	
Construction Date::				Concession:	
Primary Water Use::		Monitoring		Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::		Abandoned-Other		Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:		WATERLOO CITY		UTM Reliability::	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
County:		WATERLOO			
Bore Hole Information					
--		--			
Bore Hole ID:		1003068258			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		01-JAN-10			
Remarks:					
Zone:		17			
East 83:		533666			
North 83:		4810996			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:		381.59			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1003185838			
Layer:		1			
General Color:		GREY			
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1003185840			
Layer:		1			
Plug From:		0			
Plug To:		20			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1003185845			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1003185837			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Casing ID:		1003185842			
Layer:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003185843			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
--		--			
Hole Diameter					
--		--			
Hole ID:		1003185839			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--		--			
--		--			

26	1 of 1	E/4.3	394.5	WATERLOO ON	WWIS
Well ID:	7217851			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Test Hole			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Test Hole			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	WATERLOO CITY (WATERLOO TWP)			UTM Reliability::	
County:	WATERLOO				
Bore Hole Information					
--	--				
Bore Hole ID:	1004721976				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	23-AUG-13				
Remarks:					
Zone:	17				
East 83:	533962				
North 83:	4810446				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:					
Elevrc:					
Elevrc Description:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--					
Overburden and Bedrock Materials Interval					
--					
Formation ID:					
1005102482					
Layer:					
General Color:					
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:					
Formation End Depth:					
Formation End Depth UOM:					
ft					
--					
Annular Space/Abandonment Sealing Record					
--					
Plug ID:					
1005102489					
Layer:					
1					
Plug From:					
Plug To:					
Plug Depth UOM:					
ft					
--					
Plug ID:					
1005102490					
Layer:					
2					
Plug From:					
0					
Plug To:					
24					
Plug Depth UOM:					
ft					
--					
Plug ID:					
1005102491					
Layer:					
3					
Plug From:					
24					
Plug To:					
35					
Plug Depth UOM:					
ft					
--					
Method of Construction & Well Use					
--					
Method Construction ID:					
1005102488					
Method Construction Code:					
6					
Method Construction:					
Boring					
Other Method Construction:					
--					
Pipe Information					
--					
Pipe ID:					
1005102481					
Casing Number:					
0					
Comment:					
Alt Name:					
--					
Construction Record - Casing					
--					
Casing ID:					
1005102485					
Layer:					
1					
Open Hole or Material:					
PLASTIC					
Depth From:					
0					
Depth To:					
25					
Casing Diameter:					
2					
Casing Diameter UOM:					
inch					
Casing Depth UOM:					
ft					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1005102486			
Layer:		1			
Slot:		10			
Screen Top Depth:		25			
Screen End Depth:		35			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2.375			
--		--			
Hole Diameter					
--		--			
Hole ID:		1005102483			
Diameter:		4.5			
Depth From:		0			
Depth To:		35			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--		--			
--		--			

27	1 of 1	S/8.9	399.6	R.M. OF WATERLOO ERB ST.W/WILMOT LINE WATERLOO CITY ON	CA
Certificate #: 7-0519-99- Application Year: 99 Issue Date: 7/14/1999 Approval Type: Municipal water Status: Approved Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					

28	1 of 1	NNW/10.3	388.9	Kitchener ON	WWIS
Well ID: 7147204 Construction Date:: Primary Water Use:: Monitoring Sec. Water Use:: Final Well Status:: Abandoned-Other Specific Capacity:: Municipality: WATERLOO CITY (WATERLOO TWP) County: WATERLOO Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::					
Bore Hole Information					
--		--			
Bore Hole ID:		1003068238			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		01-JAN-10			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Remarks:					
Zone:		17			
East 83:		533525			
North 83:		4810854			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:		391.63			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1003185765			
Layer:		1			
General Color:		GREY			
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1003185767			
Layer:		1			
Plug From:		0			
Plug To:		20			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1003185772			
Method Construction Code:		0			
Method Construction:		Not Known			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1003185764			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1003185769			
Layer:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003185770			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
--		--			
Hole Diameter					
--		--			
Hole ID:		1003185766			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--		--			
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29	1 of 1	WNW/14.7	394.1	Kitchener ON	WWIS
Well ID:	7147209			Lot:	
Construction Date::				Concession:	
Primary Water Use::	Monitoring			Concession Name:	
Sec. Water Use::				Easting NAD83::	
Final Well Status::	Abandoned-Other			Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:	WATERLOO CITY (WATERLOO TWP)			UTM Reliability::	
County:	WATERLOO				
Bore Hole Information					
--		--			
Bore Hole ID:	1003068260				
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:	01-JAN-10				
Remarks:					
Zone:	17				
East 83:	533076				
North 83:	4810713				
UTMRC:	4				
UTMRC Description:	margin of error : 30 m - 100 m				
Location Method:	wwr				
Org CS:	UTM83				
Elevation:	395.44				
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock					
Materials Interval					
--		--			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Formation ID:		1003185850			
Layer:		1			
General Color:		GREY			
Most Common Material:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1003185852			
Layer:		1			
Plug From:		0			
Plug To:		20			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1003185857			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1003185849			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1003185854			
Layer:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003185855			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
--		--			
Hole Diameter					
--		--			
Hole ID:		1003185851			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
--		--			
30	1 of 1	S/16.0	400.2	WATERLOO ON	WWIS
Well ID: 7234540 Construction Date:: Primary Water Use:: Monitoring Sec. Water Use:: Final Well Status:: Observation Wells Specific Capacity:: Municipality: WATERLOO CITY (WATERLOO TWP) County: WATERLOO Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::					
Bore Hole Information					
--					
Bore Hole ID: 1005268044					
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed: 01-DEC-14					
Remarks:					
Zone: 17					
East 83: 533671					
North 83: 4809973					
UTMRC: 4					
UTMRC Description: margin of error : 30 m - 100 m					
Location Method: wwr					
Org CS: UTM83					
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--					
Overburden and Bedrock					
Materials Interval					
--					
Formation ID: 1005473502					
Layer: 1					
General Color: BROWN					
Most Common Material: SAND					
Other Materials: CLAY					
Other Materials: SILT					
Formation Top Depth: 0					
Formation End Depth: 3.3					
Formation End Depth UOM: m					
--					
Formation ID: 1005473503					
Layer: 2					
General Color: GREY					
Most Common Material: SILT					
Other Materials: CLAY					
Other Materials: SAND					
Formation Top Depth: 3.3					
Formation End Depth: 4.5					
Formation End Depth UOM: m					
--					
Annular Space/Abandonment					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Sealing Record					
--		--			
Plug ID:		1005473510			
Layer:		1			
Plug From:		1.2			
Plug To:		.1			
Plug Depth UOM:		m			
--		--			
Plug ID:		1005473511			
Layer:		2			
Plug From:		.1			
Plug To:		0			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1005473509			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1005473501			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1005473506			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		1.5			
Depth To:		0			
Casing Diameter:		3.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1005473507			
Layer:		1			
Slot:		20			
Screen Top Depth:		1.5			
Screen End Depth:		4.5			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.2			
--		--			
Hole Diameter					
--		--			
Hole ID:		1005473504			
Diameter:		15			
Depth From:		0			
Depth To:		4.5			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
31	1 of 1	E/17.4	394.0	Waterloo ON	WWIS
Well ID: 7244794 Construction Date:: Primary Water Use:: Sec. Water Use:: Final Well Status:: Specific Capacity:: Municipality: Abandoned-Other County: WATERLOO CITY (WATERLOO TWP) WATERLOO Lot: Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::					
Bore Hole Information					
--					
Bore Hole ID: 1005488425					
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed: 26-JUN-15					
Remarks:					
Zone: 17					
East 83: 534052					
North 83: 4810475					
UTMRC: 4					
UTMRC Description: margin of error : 30 m - 100 m					
Location Method: wwr					
Org CS: UTM83					
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--					
Overburden and Bedrock					
Materials Interval					
--					
Formation ID: 1005672401					
Layer: 1					
General Color:					
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth: 0					
Formation End Depth: 4.6					
Formation End Depth UOM: ft					
--					
Annular Space/Abandonment					
Sealing Record					
--					
Plug ID: 1005672407					
Layer: 1					
Plug From: 0					
Plug To: 4.6					
Plug Depth UOM: ft					
--					
Method of Construction & Well					
Use					
--					
Method Construction ID: 1005672406					
Method Construction Code:					
Method Construction:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Other Method Construction:					
--	--	--	--	--	--
Pipe Information					
--	--	--	--	--	--
Pipe ID:		1005672400			
Casing Number:		0			
Comment:					
Alt Name:					
--	--	--	--	--	--
Construction Record - Casing					
--	--	--	--	--	--
Casing ID:		1005672404			
Layer:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--	--	--	--	--	--
--	--	--	--	--	--
Construction Record - Screen					
--	--	--	--	--	--
Screen ID:		1005672405			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
--	--	--	--	--	--
Hole Diameter					
--	--	--	--	--	--
Hole ID:		1005672402			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--	--	--	--	--	--
--	--	--	--	--	--

32	1 of 1	SE/18.1	395.5	WATERLOO ON	WWIS
Well ID: 7234538					
Construction Date::					
Primary Water Use:: Monitoring					
Sec. Water Use::					
Final Well Status:: Observation Wells					
Specific Capacity::					
Municipality: WATERLOO CITY (WATERLOO TWP)					
County: WATERLOO					
Lot:					
Concession:					
Concession Name:					
Easting NAD83::					
Northing NAD83::					
Zone::					
UTM Reliability::					
Bore Hole Information					
--	--	--	--	--	--
Bore Hole ID:		1005268038			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		01-DEC-14			
Remarks:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Zone:		17			
East 83:		533942			
North 83:		4810108			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1005473415			
Layer:		1			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:		SAND			
Other Materials:		GRAVEL			
Formation Top Depth:		0			
Formation End Depth:		3			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1005473416			
Layer:		2			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:		SAND			
Other Materials:		SILT			
Formation Top Depth:		3			
Formation End Depth:		4			
Formation End Depth UOM:		m			
--		--			
Formation ID:		1005473417			
Layer:		3			
General Color:		GREY			
Most Common Material:		CLAY			
Other Materials:		SILT			
Other Materials:					
Formation Top Depth:		4			
Formation End Depth:		4.5			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1005473424			
Layer:		1			
Plug From:		2.8			
Plug To:		.1			
Plug Depth UOM:		m			
--		--			
Plug ID:		1005473425			
Layer:		2			
Plug From:		6.1			
Plug To:		0			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Use					
--	--	--	--	--	--
Method Construction ID:		1005473423			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--	--	--	--	--	--
Pipe Information					
--	--	--	--	--	--
Pipe ID:		1005473414			
Casing Number:		0			
Comment:					
Alt Name:					
--	--	--	--	--	--
Construction Record - Casing					
--	--	--	--	--	--
Casing ID:		1005473420			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		4.5			
Depth To:		3			
Casing Diameter:		3.2			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--	--	--	--	--	--
--	--	--	--	--	--
Construction Record - Screen					
--	--	--	--	--	--
Screen ID:		1005473421			
Layer:		1			
Slot:		20			
Screen Top Depth:		3			
Screen End Depth:		4.5			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.2			
--	--	--	--	--	--
Hole Diameter					
--	--	--	--	--	--
Hole ID:		1005473418			
Diameter:		15			
Depth From:		0			
Depth To:		4.5			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--	--	--	--	--	--
--	--	--	--	--	--

[33](#)

1 of 1

NW/18.2

395.8

Kitchener ON

WWIS

Well ID:	7147203	Lot:	
Construction Date::		Concession:	
Primary Water Use::	Monitoring	Concession Name:	
Sec. Water Use::		Easting NAD83::	
Final Well Status::	Abandoned-Other	Northing NAD83::	
Specific Capacity::		Zone::	
Municipality:	WATERLOO CITY (WATERLOO TWP)	UTM Reliability::	
County:	WATERLOO		

Bore Hole Information

--	--
Bore Hole ID:	1003068236
DP2BR:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		01-JAN-10			
Remarks:					
Zone:		17			
East 83:		533338			
North 83:		4810774			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:		398.77			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1003185741			
Layer:		1			
General Color:		GREY			
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1003185743			
Layer:		1			
Plug From:		0			
Plug To:		20			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1003185748			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1003185740			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1003185745			
Layer:					
Open Hole or Material:					
Depth From:					
Depth To:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003185746			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
--		--			
Hole Diameter					
--		--			
Hole ID:		1003185742			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--		--			
--		--			

34	1 of 1	N/40.2	382.9	lot 42 WATERLOO ON	WWIS
Well ID:					
6509956				Lot:	42
Construction Date::				Concession:	
Primary Water Use::				Concession Name:	GCT
Sec. Water Use::				Easting NAD83::	
Final Well Status::		Observation Wells		Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:		WATERLOO CITY (WATERLOO TWP)		UTM Reliability::	
County:		WATERLOO			
Bore Hole Information					
--		--			
Bore Hole ID:		11179481			
DP2BR:					
Code OB:		x			
Code OB Description:		Unknown type in the lower layers(s)			
Open Hole:					
Date Completed:		30-NOV-04			
Remarks:					
Zone:		17			
East 83:		533592			
North 83:		4810938			
UTMRC:		3			
UTMRC Description:		margin of error : 10 - 30 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:		388.08			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		932989855			
Layer:		1			
General Color:		BROWN			
Most Common Material:		SILT			
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		.3			
Formation End Depth UOM:		m			
--		--			
Formation ID:		932989856			
Layer:		2			
General Color:		BROWN			
Most Common Material:		SILT			
Other Materials:					
Other Materials:					
Formation Top Depth:		.3			
Formation End Depth:		4			
Formation End Depth UOM:		m			
--		--			
Formation ID:		932989857			
Layer:		3			
General Color:		GREY			
Most Common Material:		SILT			
Other Materials:					
Other Materials:					
Formation Top Depth:		4			
Formation End Depth:		7			
Formation End Depth UOM:		m			
--		--			
Formation ID:		932989858			
Layer:		4			
General Color:					
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:		7			
Formation End Depth:		9.5			
Formation End Depth UOM:		m			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		933262445			
Layer:		1			
Plug From:		9.5			
Plug To:		5.5			
Plug Depth UOM:		m			
--		--			
Plug ID:		933262446			
Layer:		2			
Plug From:		5.5			
Plug To:		2.7			
Plug Depth UOM:		m			
--		--			
Plug ID:		933262447			
Layer:		3			
Plug From:		2.7			
Plug To:		0			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Use					
--		--			
Method Construction ID:		966509956			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		11188000			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930852644			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		-.76			
Depth To:		4			
Casing Diameter:		1.9			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		933410951			
Layer:		1			
Slot:					
Screen Top Depth:		4			
Screen End Depth:		5.5			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		2.7			
--		--			
Hole Diameter					
--		--			
Hole ID:		11313837			
Diameter:		15			
Depth From:		0			
Depth To:		9.5			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
--		--			
35	1 of 1	SE/47.2	395.0	930 Erb Street West Waterloo ON N2J 3Z4	EHS
Postal Code:					
City:					
Address2:					
Address1:					
Provstate:					
Order No.:		20120808004			
Addit. Info Ordered::		Fire Insur. Maps and/or Site Plans; City Directory			
Report Date:		10-AUG-12			
Report Type:		Custom Report			
Search Radius (km):		.25			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
36	1 of 4	ESE/55.2	392.6	HERGOTT CIDER MILL 928 ERB ST W WATERLOO ON N2J 3Z4	SCT
Established:		1929			
Plant Size (ft²):		2500			
Employment:		2			
--Details--					
Description:		CANNED FRUITS, VEGETABLES, PRESERVES, JAMS AND JELLIES			
SIC/NAICS Code:		2033			
Description:		FOOD PREPARATIONS, NOT ELSEWHERE CLASSIFIED			
SIC/NAICS Code:		2099			
Description:		FABRICATED TEXTILE PRODUCTS, NOT ELSEWHERE CLASSIFIED			
SIC/NAICS Code:		2399			
Description:		MANUFACTURING INDUSTRIES, NOT ELSEWHERE CLASSIFIED			
SIC/NAICS Code:		3999			
36	2 of 4	ESE/55.2	392.6	HERGOTT CIDER MILL 928 ERB ST W WATERLOO ON N2J 3Z4	SCT
Established:		1929			
Plant Size (ft²):		2500			
Employment:		2			
--Details--					
Description:		Fruit and Vegetable Canning, Pickling and Drying			
SIC/NAICS Code:		311420			
Description:		Seasoning and Dressing Manufacturing			
SIC/NAICS Code:		311940			
Description:		All Other Food Manufacturing			
SIC/NAICS Code:		311990			
Description:		All Other Textile Product Mills			
SIC/NAICS Code:		314990			
Description:		Other Leather and Allied Product Manufacturing			
SIC/NAICS Code:		316990			
Description:		Other Specialty-Line Food Wholesaler-Distributors			
SIC/NAICS Code:		413190			
Description:		All Other Wholesaler-Distributors			
SIC/NAICS Code:		418990			
36	3 of 4	ESE/55.2	392.6	Hergott Cider Mill & Products 928 Erb St W Waterloo ON N2J 3Z4	SCT
Established:		7/1/1929			
Plant Size (ft²):		2500			
Employment:					
--Details--					

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Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Final Well Status::		Observation Wells		Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:		WATERLOO CITY (WATERLOO TWP)		UTM Reliability::	
County:		WATERLOO			
Bore Hole Information					
--		--			
Bore Hole ID:		1003535043			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		15-MAR-11			
Remarks:					
Zone:		17			
East 83:		533033			
North 83:		4810753			
UTMRC:		3			
UTMRC Description:		margin of error : 10 - 30 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock					
Materials Interval					
--		--			
Formation ID:		1003902592			
Layer:		1			
General Color:		BROWN			
Most Common Material:		TOPSOIL			
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		2			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		1003902594			
Layer:		2			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:		SILT			
Other Materials:		LOOSE			
Formation Top Depth:		2			
Formation End Depth:		20			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		1003902596			
Layer:		3			
General Color:		BROWN			
Most Common Material:		SAND			
Other Materials:		SILT			
Other Materials:		DRY			
Formation Top Depth:		20			
Formation End Depth:		85			
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment					
Sealing Record					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
Plug ID:		1003902627			
Layer:		1			
Plug From:		0			
Plug To:		4			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		1003902614			
Method Construction Code:		F			
Method Construction:		H.S.A.			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		1003902589			
Casing Number:		0			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		1003902605			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		5			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		1003902607			
Layer:		1			
Slot:		10			
Screen Top Depth:		5			
Screen End Depth:		15			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2			
--		--			
Hole Diameter					
--		--			
Hole ID:		1003902598			
Diameter:		8			
Depth From:		0			
Depth To:		85			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--		--			
--		--			

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1 of 1

N/72.8

378.6

WATERLOO ON

WWIS

Well ID: 7217852
 Construction Date::
 Primary Water Use:: Test Hole
 Sec. Water Use::
 Final Well Status:: Test Hole

Lot:
 Concession:
 Concession Name:
 Easting NAD83::
 Northing NAD83::

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Specific Capacity::				Zone::	
Municipality:		WATERLOO CITY (WATERLOO TWP)		UTM Reliability::	
County:		WATERLOO			
Bore Hole Information					
--		--			
Bore Hole ID:		1004721979			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		18-SEP-13			
Remarks:					
Zone:		17			
East 83:		533729			
North 83:		4811034			
UTMRC:		4			
UTMRC Description:		margin of error : 30 m - 100 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		1005102500			
Layer:					
General Color:					
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:					
Formation End Depth:					
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		1005102507			
Layer:		1			
Plug From:					
Plug To:					
Plug Depth UOM:		ft			
--		--			
Plug ID:		1005102508			
Layer:		2			
Plug From:		0			
Plug To:		14			
Plug Depth UOM:		ft			
--		--			
Plug ID:		1005102509			
Layer:		3			
Plug From:		14			
Plug To:		25			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well Use					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--	--	--	--	--	--
Method Construction ID:		1005102506			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
--	--	--	--	--	--
Pipe Information					
--	--	--	--	--	--
Pipe ID:		1005102498			
Casing Number:		0			
Comment:					
Alt Name:					
--	--	--	--	--	--
Construction Record - Casing					
--	--	--	--	--	--
Casing ID:		1005102503			
Layer:		1			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		15			
Casing Diameter:		2			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--	--	--	--	--	--
--	--	--	--	--	--
Construction Record - Screen					
--	--	--	--	--	--
Screen ID:		1005102504			
Layer:		1			
Slot:		10			
Screen Top Depth:		15			
Screen End Depth:		25			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		2.375			
--	--	--	--	--	--
Well Yield Testing					
--	--	--	--	--	--
Pump Test ID:		1005102499			
Pump Set At:					
Static Level:		7			
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:		0			
Water State After Test:					
Pumping Test Method:		0			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:		N			
--	--	--	--	--	--
Hole Diameter					
--	--	--	--	--	--
Hole ID:		1005102501			
Diameter:		4.5			
Depth From:		0			
Depth To:		25			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--	--	--	--	--	--
--	--	--	--	--	--

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
39	1 of 1	NW/82.3	397.5	lot 42 Waterloo ON	WWIS
Well ID:		7160943	Lot:		042
Construction Date::			Concession:		
Primary Water Use::			Concession Name:		GCT
Sec. Water Use::			Easting NAD83::		
Final Well Status::		Abandoned-Other	Northing NAD83::		
Specific Capacity::			Zone::		
Municipality:		WATERLOO CITY (WATERLOO TWP)	UTM Reliability::		
County:		WATERLOO			
Bore Hole Information					
--		--			
Bore Hole ID:		1003491540			
DP2BR:					
Code OB:					
Code OB Description:					
Open Hole:					
Date Completed:		01-NOV-10			
Remarks:					
Zone:		17			
East 83:		533170			
North 83:		4810835			
UTMRC:		3			
UTMRC Description:		margin of error : 10 - 30 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:					
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock					
Materials Interval					
--		--			
Formation ID:		1003858349			
Layer:					
General Color:					
Most Common Material:					
Other Materials:					
Other Materials:					
Formation Top Depth:					
Formation End Depth:					
Formation End Depth UOM:		ft			
--		--			
Annular Space/Abandonment					
Sealing Record					
--		--			
Plug ID:		1003858355			
Layer:		1			
Plug From:		10			
Plug To:		0			
Plug Depth UOM:		ft			
--		--			
Method of Construction & Well					
Use					
--		--			
Method Construction ID:		1003858354			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Method Construction Code:					
Method Construction:					
Other Method Construction:					
--	--	--	--	--	--
Pipe Information					
--	--	--	--	--	--
Pipe ID:		1003858348			
Casing Number:		0			
Comment:					
Alt Name:					
--	--	--	--	--	--
Construction Record - Casing					
--	--	--	--	--	--
Casing ID:		1003858352			
Layer:					
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:					
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--	--	--	--	--	--
--	--	--	--	--	--
Construction Record - Screen					
--	--	--	--	--	--
Screen ID:		1003858353			
Layer:					
Slot:					
Screen Top Depth:					
Screen End Depth:					
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
--	--	--	--	--	--
Hole Diameter					
--	--	--	--	--	--
Hole ID:		1003858350			
Diameter:					
Depth From:					
Depth To:					
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			
--	--	--	--	--	--
--	--	--	--	--	--

40	1 of 1	SSE/90.1	396.8	lot 41 ON	WWIS
Well ID: 6502879					
Construction Date::				Lot: 041	
Primary Water Use:: Domestic				Concession:	
Sec. Water Use::				Concession Name: GCT	
Final Well Status:: Water Supply				Easting NAD83::	
Specific Capacity::				Northing NAD83::	
Municipality: WATERLOO CITY (WATERLOO TWP)				Zone::	
County: WATERLOO				UTM Reliability::	
Bore Hole Information					
--	--	--	--	--	--
Bore Hole ID:		10454327			
DP2BR:					
Code OB:		0			
Code OB Description:		Overburden			
Open Hole:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Date Completed:		16-APR-68			
Remarks:					
Zone:		17			
East 83:		533894			
North 83:		4810003			
UTMRC:		5			
UTMRC Description:		margin of error : 100 m - 300 m			
Location Method:		p5			
Org CS:					
Elevation:		397.18			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock Materials Interval					
--		--			
Formation ID:		932560300			
Layer:		1			
General Color:					
Most Common Material:		TOPSOIL			
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		2			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932560301			
Layer:		2			
General Color:					
Most Common Material:		QUICKSAND			
Other Materials:					
Other Materials:					
Formation Top Depth:		2			
Formation End Depth:		7			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932560302			
Layer:		3			
General Color:					
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		7			
Formation End Depth:		105			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932560303			
Layer:		4			
General Color:					
Most Common Material:		CLAY			
Other Materials:		MEDIUM SAND			
Other Materials:					
Formation Top Depth:		105			
Formation End Depth:		156			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932560304			
Layer:		5			
General Color:					
Most Common Material:		HARDPAN			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Other Materials:					
Other Materials:					
Formation Top Depth:		156			
Formation End Depth:		175			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932560305			
Layer:		6			
General Color:					
Most Common Material:		MEDIUM SAND			
Other Materials:					
Other Materials:					
Formation Top Depth:		175			
Formation End Depth:		186			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932560306			
Layer:		7			
General Color:					
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		186			
Formation End Depth:		188			
Formation End Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		966502879			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		11002897			
Casing Number:		1			
Comment:					
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930738093			
Layer:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		181			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
Construction Record - Screen					
--		--			
Screen ID:		933383967			
Layer:		1			
Slot:		016			
Screen Top Depth:		181			
Screen End Depth:		186			
Screen Material:					
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:					
--		--			
Well Yield Testing					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--	--	--	--	--	--
Pump Test ID:		996502879			
Pump Set At:					
Static Level:		135			
Final Level After Pumping:		140			
Recommended Pump Depth:		150			
Pumping Rate:		14			
Flowing Rate:					
Recommended Pump Rate:		14			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		11			
Pumping Duration MIN:		0			
Flowing:		N			
--	--	--	--	--	--
Water Details					
--	--	--	--	--	--
Water ID:		933941307			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		175			
Water Found Depth UOM:		ft			
--	--	--	--	--	--
--	--	--	--	--	--
41	1 of 2	WNW/93.7	396.1	243 BUTTONBUSH STREET, WATERLOO ON	PINC
Incident ID:				Health Impact:	
Incident No:	1918508			Environment Impact:	
Type:	FS-Pipeline Incident			Property Damage:	No
Status Code:	Pipeline Damage Reason Est			Service Interrupt:	
Fuel Occurrence Tp:				Enforce Policy:	Yes
Fuel Type:				Public Relation:	
Tank Status:	RC Established			Pipeline System:	
Task No:	6279046			Depth:	
Spills Action Centre:				Pipe Material:	
Method Details:	E-mail			PSIG:	
Fuel Category:	Natural Gas			Attribute Category:	FS-Perform P-line Inc Invest
Date of Occurrence:				Regulator Location:	
Occurrence Start	2016/08/15				
Date:					
Operation Type:					
Pipeline Type:					
Regulator Type:					
Summary:	243 BUTTONBUSH STREET, WATERLOO - PIPELINE HIT - 4"				
Reported By:	Nicole Fernandes - UNION GAS				
Affiliation:					
Occurrence Desc:					
Damage Reason:	Notification to one call center made but not sufficient				
Notes:					
41	2 of 2	WNW/93.7	396.1	243 Buttonbush Street, Waterloo Waterloo ON	SPL
Ref No:	0565-ACMKPT				
Contaminant Code:	35				
Contaminant Name:	NATURAL GAS (METHANE)				
Contaminant Quantity:	0 other - see incident description				

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Incident Cause: Incident Dt: 2016/08/08 Incident Reason: Operator/Human Error Incident Summary: TSSA FSB: 4 inch pl service IP dmg; not made safe MOE Reported Dt: 2016/08/08 Environmental Impact: Nature of Impact: Receiving Medium: SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill Sector Source Type: Unknown / N/A Receiving Environment: Air Incident Event: Leak/Break Site Municipality: Waterloo					
42	1 of 1	NW/104.1	397.0	249 BUTTONBUSH STREET, WATERLOO ON	PINC
Incident ID: Incident No: 1267412 Type: FS-Pipeline Incident Status Code: Pipeline Damage Reason Est Fuel Occurrence Tp: Fuel Type: Tank Status: RC Established Task No: 4689555 Spills Action Centre: Method Details: E-mail Fuel Category: Natural Gas Date of Occurrence: Occurrence Start Date: 2013/10/28 Operation Type: Pipeline Type: Regulator Type: Summary: 249 BUTTONBUSH STREET, WATERLOO - PIPELINE HIT - 1 ¼" Reported By: Rick Bigelow - Union Gas Affiliation: Occurrence Desc: Damage Reason: Excavation practices not sufficient Notes:					
Health Impact: Environment Impact: Property Damage: Yes Service Interrupt: Enforce Policy: Yes Public Relation: Pipeline System: Depth: Pipe Material: PSIG: Attribute Category: FS-Perform P-line Inc Invest Regulator Location:					
43	1 of 1	NW/113.6	396.7	249 Button Bush Waterloo ON	SPL
Ref No: 8001-9CRLMV Contaminant Code: 35 Contaminant Name: NATURAL GAS (METHANE) Contaminant Quantity: 0 other - see incident description Incident Cause: Operator/Human error Incident Dt: 2013/10/22 Incident Reason: Unknown / N/A Incident Summary: TSSA, Section 21, strike 1.25, safe MOE Reported Dt: 2013/10/23 Environmental Impact: Not Anticipated Nature of Impact: Air Pollution Receiving Medium: SAC Action Class: Air Spills - Gases and Vapours Sector Source Type: Unknown / N/A Receiving Environment: Incident Event: Site Municipality: Waterloo					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
44	1 of 25	S/114.6	393.1	TOROMONT ENERGY LTD. 1001 ERB STREET WEST WATERLOO ON	GEN
PO Box Num: Status: Country: Generator #: ON2088101 Approval Yrs:: 2009 SIC Code: 221119 SIC Description: Other Electric Power Generation					
--Details-- Waste Code: 212 Waste Description: ALIPHATIC SOLVENTS Waste Code: 213 Waste Description: PETROLEUM DISTILLATES Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS					
44	2 of 25	S/114.6	393.1	University of Waterloo 1001 Erb's Rd Wilmot Township ON	GEN
PO Box Num: Status: Country: Generator #: ON8509868 Approval Yrs:: 2010 SIC Code: 611310 SIC Description: Universities					
--Details-- Waste Code: 221 Waste Description: LIGHT FUELS					
44	3 of 25	S/114.6	393.1	University of Waterloo 1001 Erb's Rd Wilmot Township ON	GEN
PO Box Num: Status: Country: Generator #: ON8509868 Approval Yrs:: 03,04,05,06,07,08 SIC Code: 611310 SIC Description: Universities					
--Details-- Waste Code: 221 Waste Description: LIGHT FUELS					
44	4 of 25	S/114.6	393.1	The Regional Municipality of Waterloo 1001 Erb's Road, R.R.#3	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
				Waterloo ON N2J 3Z4	
PO Box Num: Status: Country: Generator #: ON5362204 Approval Yrs:: 2011 SIC Code: 913910 SIC Description: Other Local Municipal and Regional Public Administration					
--Details-- Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
44	5 of 25	S/114.6	393.1	The Regional Municipality of Waterloo 1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON5362204 Approval Yrs:: 2010 SIC Code: 913910 SIC Description: Other Local Municipal and Regional Public Administration					
--Details-- Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
44	6 of 25	S/114.6	393.1	TOROMONT ENERGY LTD. 1001 ERB STREET WEST WATERLOO ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON2088101 Approval Yrs:: As of May 2015 SIC Code: SIC Description:					
--Details-- Waste Code: 252 Waste Description: Waste crankcase oils and lubricants					
Waste Code: 213 Waste Description: Petroleum distillates					
Waste Code: 212 Waste Description: Aliphatic solvents and residues					
Waste Code: 122 Waste Description: Alkaline slutions - containing other metals and non-metals (not cyanide)					
Waste Code: 267 Waste Description: Organic acids					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
44	7 of 25	S/114.6	393.1	TOROMONT ENERGY LTD. 1001 ERB STREET WEST WATERLOO ON	GEN
PO Box Num: Status: Country: Generator #: ON2088101 Approval Yrs:: 2010 SIC Code: 221119 SIC Description: Other Electric Power Generation					
--Details--					
Waste Code: 213 Waste Description: PETROLEUM DISTILLATES					
Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS					
Waste Code: 212 Waste Description: ALIPHATIC SOLVENTS					
44	8 of 25	S/114.6	393.1	The Regional Municipality of Waterloo 1001 Erb's Road, R.R.#3 Waterloo ON	GEN
PO Box Num: Status: Country: Generator #: ON5362204 Approval Yrs:: 2013 SIC Code: 913910 SIC Description:					
--Details--					
Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
44	9 of 25	S/114.6	393.1	TOROMONT ENERGY 1001 ERB STREET WEST WATERLOO ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON2088101 Approval Yrs:: 99,00,01,02 SIC Code: 4911 SIC Description: ELECT. POWER SYS.					
--Details--					
Waste Code: 212 Waste Description: ALIPHATIC SOLVENTS					
Waste Code: 213 Waste Description: PETROLEUM DISTILLATES					
Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
44	10 of 25	S/114.6	393.1	University of Waterloo 1001 Erb's Rd Wilmot Township ON	GEN
PO Box Num: Status: Country: Generator #: ON8509868 Approval Yrs:: 2011 SIC Code: 611310 SIC Description: Universities					
--Details-- Waste Code: 221 Waste Description: LIGHT FUELS					
44	11 of 25	S/114.6	393.1	University of Waterloo 1001 Erb's Rd Wilmot Township ON N2J 3Z4	GEN
PO Box Num: Status: Registered Country: Canada Generator #: ON8509868 Approval Yrs:: As of Sep 2016 SIC Code: SIC Description:					
--Details-- Waste Code: 221 I Waste Description: Light fuels					
44	12 of 25	S/114.6	393.1	The Regional Municipality of Waterloo Transportation & Environmental Services 1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON5362204 Approval Yrs:: As of May 2015 SIC Code: SIC Description:					
--Details-- Waste Code: 251 Waste Description: Waste oils/sludges (petroleum based)					
44	13 of 25	S/114.6	393.1	The Regional Municipality of Waterloo Transportation & Environmental Services 1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	GEN
PO Box Num:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Status: Registered Country: Canada Generator #: ON5362204 Approval Yrs:: As of Sep 2016 SIC Code: SIC Description:					
--Details-- Waste Code: 251 L Waste Description: Waste oils/sludges (petroleum based)					
44	14 of 25	S/114.6	393.1	University of Waterloo 1001 Erb's Rd Wilmot Township ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON8509868 Approval Yrs:: As of May 2015 SIC Code: SIC Description:					
--Details-- Waste Code: 221 Waste Description: Light fuels					
44	15 of 25	S/114.6	393.1	TOROMONT ENERGY LTD. 1001 ERB STREET WEST WATERLOO ON	GEN
PO Box Num: Status: Country: Generator #: ON2088101 Approval Yrs:: 03,04,05,06,07,08 SIC Code: 221119 SIC Description: Other Electric Power Generation					
--Details-- Waste Code: 213 Waste Description: PETROLEUM DISTILLATES Waste Code: 212 Waste Description: ALIPHATIC SOLVENTS Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS					
44	16 of 25	S/114.6	393.1	The Regional Municipality of Waterloo 1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON5362204 Approval Yrs:: 05,06,07,08					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
SIC Code: SIC Description:		913190 Other Municipal Protective Services			
<u>--Details--</u> Waste Code: Waste Description:		251 OIL SKIMMINGS & SLUDGES			
44	17 of 25	S/114.6	393.1	TOROMONT ENERGY LTD. 1001 ERB STREET WEST WATERLOO ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:		Registered Canada ON2088101 As of Sep 2016			
<u>--Details--</u> Waste Code: Waste Description:		122 C Alkaline slutions - containing other metals and non-metals (not cyanide)			
Waste Code: Waste Description:		212 L Aliphatic solvents and residues			
Waste Code: Waste Description:		252 L Waste crankcase oils and lubricants			
Waste Code: Waste Description:		213 I Petroleum distillates			
Waste Code: Waste Description:		267 C Organic acids			
44	18 of 25	S/114.6	393.1	TOROMONT ENERGY LTD. 1001 ERB STREET WEST WATERLOO ON	GEN
PO Box Num: Status: Country: Generator #: Approval Yrs:: SIC Code: SIC Description:		ON2088101 2011 221119 Other Electric Power Generation			
<u>--Details--</u> Waste Code: Waste Description:		252 WASTE OILS & LUBRICANTS			
Waste Code: Waste Description:		212 ALIPHATIC SOLVENTS			
Waste Code: Waste Description:		213 PETROLEUM DISTILLATES			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
44	19 of 25	S/114.6	393.1	The Regional Municipality of Waterloo 1001 Erb's Road, R.R.#3 Waterloo ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON5362204 Approval Yrs:: 2012 SIC Code: 913910 SIC Description: Other Local Municipal and Regional Public Administration					
--Details-- Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
44	20 of 25	S/114.6	393.1	TOROMONT ENERGY LTD. 1001 ERB STREET WEST WATERLOO ON N2J 3Z4	GEN
PO Box Num: Status: Country: Generator #: ON2088101 Approval Yrs:: 2012 SIC Code: 221119 SIC Description: Other Electric Power Generation					
--Details-- Waste Code: 213 Waste Description: PETROLEUM DISTILLATES Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS Waste Code: 212 Waste Description: ALIPHATIC SOLVENTS					
44	21 of 25	S/114.6	393.1	University of Waterloo 1001 Erb's Rd Wilmot Township ON	GEN
PO Box Num: Status: Country: Generator #: ON8509868 Approval Yrs:: 2009 SIC Code: 611310 SIC Description: Universities					
--Details-- Waste Code: 221 Waste Description: LIGHT FUELS					
44	22 of 25	S/114.6	393.1	University of Waterloo 1001 Erb's Rd Wilmot Township ON	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
PO Box Num: Status: Country: Generator #: ON8509868 Approval Yrs:: 2013 SIC Code: 611310 SIC Description: UNIVERSITIES --Details-- Waste Code: 221 Waste Description: LIGHT FUELS					
44	23 of 25	S/114.6	393.1	University of Waterloo 1001 Erb's Rd Wilmot Township ON	GEN
PO Box Num: Status: Country: Generator #: ON8509868 Approval Yrs:: 2012 SIC Code: 611310 SIC Description: Universities --Details-- Waste Code: 221 Waste Description: LIGHT FUELS					
44	24 of 25	S/114.6	393.1	TOROMONT ENERGY LTD. 1001 ERB STREET WEST WATERLOO ON	GEN
PO Box Num: Status: Country: Generator #: ON2088101 Approval Yrs:: 2013 SIC Code: 221119 SIC Description: --Details-- Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS Waste Code: 213 Waste Description: PETROLEUM DISTILLATES Waste Code: 267 Waste Description: ORGANIC ACIDS Waste Code: 122 Waste Description: ALKALINE WASTES - OTHER METALS Waste Code: 212 Waste Description: ALIPHATIC SOLVENTS					
44	25 of 25	S/114.6	393.1	The Regional Municipality of Waterloo 1001 Erb's Road, R.R.#3	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Waterloo ON N2J 3Z4					
PO Box Num: Status: Country: Generator #: ON5362204 Approval Yrs:: 2009 SIC Code: 913910 SIC Description: Other Local Municipal and Regional Public Administration					
--Details-- Waste Code: 251 Waste Description: OIL SKIMMINGS & SLUDGES					
45	1 of 20	ESE/120.1	390.0	R.M. OF WATERLOO FORCEMAIN FORM WATERLOO LANDFL WATERLOO CITY ON	CA
Certificate #: 3-1710-88- Application Year: 88 Issue Date: 9/15/1988 Approval Type: Municipal sewage Status: Approved Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
45	2 of 20	ESE/120.1	390.0	R.M. OF WATERLOO STORMWATER MANAGEMENT N. AREA OF WATERLOO LANDFILL WATERLOO CITY ON	CA
Certificate #: 3-1409-89- Application Year: 89 Issue Date: 5/29/1991 Approval Type: Municipal sewage Status: Approved in 1991 Application Type: Client Name:: Client Address:: Client City:: Client Postal Code:: Project Description:: Contaminants:: Emission Control::					
45	3 of 20	ESE/120.1	390.0	WATERLOO CITY WATERLOO LANDFILL SITE - WWTP WATERLOO CITY ON	CA
Certificate #: 3-0013-92- Application Year: 92 Issue Date: 2/6/1992 Approval Type: Municipal sewage					

98 erisinfo.com | Environmental Risk Information Services Order No: 20170330028

99 erisinfo.com | Environmental Risk Information Services Order No: 20170330028

45	8 of 20	ESE/120.1	390.0	WATERLOO LANDFILL SITE (ERB ST W) CITY OF WATERLOO ON	WDS
Certificate No.:		A140301			
Issue Date:		01/12/1989			
Status:		Approved			
Application Status:					
Concession:					
Lot:		WESTERN 1/3 OF G.C.T. 40 EAST OF TWP. ROAD 41 SOUTH OF COUNTY RD. #9			

45	9 of 20	ESE/120.1	390.0	WATERLOO LANDFILL SITE (ERB ST. W.) TOWNSHIP OF WATERLOO ON	WDS
Certificate No.:		A140301			
Issue Date:		07/01/1976			
Status:		Approved			
Application Status:					
Concession:					
Lot:		WESTERN 1/3 OF G.C.T. 40 EAST OF TWP. RD. 41 SOUTH OF COUNTY RD. #9			
Region/County:		WEST CENTRAL/R.M. OF WATERLOO			
Proponent:		REG.MUN. OF WATERLOO			
Address:		MARSLAND CENTRE,20 ERB ST.W.			
City:		WATERLOO ONTARIO			
Facility Type:		Landfill			
District Office:		Cambridge			
Municipalities Served:		POPULATION SERVED: 50,000 (as on application dated Apr. 14/72)			
Total Area (ha):		70			
Landfill Capacity (m³):		0			
Landfill Monitoring:					
Landfill Control Type:					
Est. Closure Date:		12/31/22			
Transfer Area (ha):		0			
Transfer Capacity (m³):		0			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Transfer Sites Certificate No.: Incinerator Area (ha): 0 Incinerator Capacity (t): 0 Processing Area (m³): 0 Processing Capacity (m³/d): 0 Processing Volume (m³): 0 Processing Feed (m³): 0 Mobile Units: Mobile Description: Mobile Capacity: 0 Mobile Unit Certificate No.: Waste Type: domestic, commercial, non-hazardous solid-industrial Waste Type Other: Yes Waste Class: Other Approvals/Permits: #A 141201 IS THE COFA # FOR THIS SITE FOR THE DATES OF MAY 12/72 & JAN 8/73. Approval Description: Waste Description: DOMESTIC: 70%, COMMERCIAL: 15%, NoHzSin: 10%, OTHER [DEMOLITION WASTES, TREES]: 5% Site Closing Description: ANTICIPATED LIFETIME: 50 YEARS (as on application dated Apr.14/72) PDF URL: Record Type: Project Type:					

45	10 of 20	ESE/120.1	390.0	WATERLOO LANDFILL SITE (ERB ST. W.) TOWNSHIP OF WATERLOO ON	WDS
Certificate No.: A140301 Issue Date: 06/30/1973 Status: Application Status: Concession: Lot: WESTERN 1/3 OF G.C.T. 40* EAST OF TWP. ROAD 41* SOUTH OF COUNTY ROAD #9* Region/County: WEST CENTRAL/R.M. OF WATERLOO Proponent: CITY OF WATERLOO Address: MARSLAND CENTRE, 20 ERB ST. W City: WATERLOO ONTARIO Facility Type: Landfill District Office: Cambridge Municipalities Served: POPULATION SERVED: 50,000 (as on application dated Apr. 14/72) Total Area (ha): 70 Landfill Capacity (m³): 0 Landfill Monitoring: Landfill Control Type: Est. Closure Date: 12/31/22 Transfer Area (ha): 0 Transfer Capacity (m³): 0 Transfer Sites Certificate No.: Incinerator Area (ha): 0 Incinerator Capacity (t): 0 Processing Area (m³): 0 Processing Capacity (m³/d): 0 Processing Volume (m³): 0 Processing Feed (m³): 0 Mobile Units: Mobile Description: Mobile Capacity: 0 Mobile Unit Certificate No.: Waste Type: domestic, commercial, non-hazardous solid-industrial Waste Type Other: Yes Waste Class: Other Approvals/Permits: A #141201 WAS ISSUED FOR COFA'S DATED JAN.8/73 AND MAY 12/72. Approval Description: Waste Description: DOMESTIC: 70%, COMMERCIAL: 15%, NoHzSin: 10%, OTHER [DEMOLITION WASTE, TREES]: 5% Site Closing Description: ANTICIPATED LIFETIME: 50 YEARS (as on application dated Apr.14/72)					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Application Status: Concession: Lot: WESTERN 1/3 OF G.C.T. 40 EAST OF TWP. ROAD 41 SOUTH OF COUNTY RD. #9 Region/County: WATERLOO, WEST CENTRAL/R.M. OF Proponent: WATERLOO,REG. MUN. OF Address: MARSLAND CENTRE, 20 ERB ST W City: WATERLOO ONTARIO Facility Type: Landfill District Office: Cambridge Municipalities Served: CITY OF WATERLOO, CITY OF KITCHENER, TWP. OF WOOLWICH, TWP. OF WILMOT, TWP. OF WELLESLEY POPULATION SERVED: 235,000 (as on application dated May 29,85) Total Area (ha): 64.8 Landfill Capacity (m³): 0 Landfill Monitoring: groundwater, surface water Landfill Control Type: leachate, surface water, groundwater Est. Closure Date: Transfer Area (ha): 0 Transfer Capacity (m³): 0 Transfer Sites Certificate No.: Incinerator Area (ha): 0 Incinerator Capacity (t): 0 Processing Area (m³): 0 Processing Capacity (m³/d): 0 Processing Volume (m³): 0 Processing Feed (m³): 0 Mobile Units: Mobile Description: Mobile Capacity: 0 Mobile Unit Certificate No.: Waste Type: domestic, commercial, non-hazardous solid-industrial Waste Type Other: Yes Waste Class: Other Approvals/Permits: #A 141201 IS THE COFA NO. FOR THIS SITE FOR DATES MAY 12/72 AND JAN 8/73. Approval Description: A LETTER WAS SENT TO THE CERTIFICATE HOLDER TO CORRECT AN ERROR AND TO AVOID POSSIBLE CONFUSION. THE #'s OF SOME ADDITIONAL CONDITIONS DUPLICATED THE #'s OF EXISTING CONDITIONS. THE CONDITIONS #6-15 NOW CHANGED TO #11-20. Waste Description: DOMESTIC: 70%, COMMERCIAL: 15%, NoHzSIn: 10%, OTHER [DEMOLITION WASTE, TREES]: 5% Site Closing Description: CONDITION #5: DATE OF DECEMBER 31/1991 HAS BEEN CHANGED TO DEC 31/92 BY THIS NOTICE. CONDITION 5 WAS ORIGINALLY IMPOSED ON NOTICE DATED JULY 31 1987 & AMENDED ON NOTICES DATED JAN 12/89 & DEC 31/90 & NOW AMENDED BY THIS NOTICE. PDF URL: Record Type: Project Type:					

45	13 of 20	ESE/120.1	390.0	WATERLOO LANDFILL SITE (ERB ST W) TOWNSHIP OF WATERLOO ON	WDS
Certificate No.: A140301 Issue Date: 07/29/1983 Status: Approved Application Status: Concession: Lot: WESTERN 1/3 OF G.C.T. 40 EAST OF TWP. ROAD 41 SOUTH OF COUNTY ROAD #9 Region/County: WEST CENTRAL/R.M. OF WATERLOO Proponent: REG.MUN. OF WATERLOO Address: MARSLAND CENTRE, 20 ERB ST W City: WATERLOO ONTARIO Facility Type: Landfill District Office: Cambridge Municipalities Served: CITY OF WATERLOO, AND REGIONAL MUNICIPALITY POPULATION SERVED: 50,000 (as on application dated Apr. 14 1972) Total Area (ha): 70 Landfill Capacity (m³): 0					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Landfill Monitoring: Landfill Control Type: Est. Closure Date: 12/31/22 Transfer Area (ha): 0 Transfer Capacity (m³): 0 Transfer Sites Certificate No.: Incinerator Area (ha): 0 Incinerator Capacity (t): 0 Processing Area (m³): 0 Processing Capacity (m³/d): 0 Processing Volume (m³): 0 Processing Feed (m³): 0 Mobile Units: Mobile Description: Mobile Capacity: 0 Mobile Unit Certificate No.: Waste Type: domestic, commercial, non-hazardous solid-industrial Waste Type Other: Yes Waste Class: Other Approvals/Permits: Approval Description: CERTIFICATE MUST BE REGISTERED ON TITLE. Waste Description: DOMESTIC: 70%, COMMERCIAL: 15%, NoHzSin: 10%, OTHER [DEMOLITION WASTE, TREES]: 5% Site Closing Description: ANTICIPATED LIFETIME: 50 YEARS (as on application dated Apr.14 1972) PDF URL: Record Type: Project Type:					

45	14 of 20	ESE/120.1	390.0	WATERLOO LANDFILL SITE (ERB ST W) WATERLOO, CITY OF ON	WDS
Certificate No.: A140301 Issue Date: 02/04/1992 Status: Approved Application Status: Concession: Lot: WESTERN 1/3 OF G.C.T. 40 EAST OF TWP. ROAD 41 SOUTH OF COUNTY RD. #9 Region/County: WATERLOO, WEST CENTRAL/R.M. OF Proponent: WATERLOO, REG. MUN. OF Address: MARSLAND CENTRE, 20 ERB ST W City: WATERLOO ONTARIO Facility Type: Landfill District Office: Cambridge Municipalities Served: CITY OF WATERLOO, CITY OF KITCHENER, TWP. OF WOOLWICH, TWP. OF WILMOT, TWP. OF WELLESLEY POPULATION SERVED: 235,000 (as on application dated May 29,85) Total Area (ha): 64.8 Landfill Capacity (m³): 0 Landfill Monitoring: groundwater, surface water Landfill Control Type: leachate, surface water, groundwater Est. Closure Date: Transfer Area (ha): 0 Transfer Capacity (m³): 0 Transfer Sites Certificate No.: Incinerator Area (ha): 0 Incinerator Capacity (t): 0 Processing Area (m³): 0 Processing Capacity (m³/d): 0 Processing Volume (m³): 0 Processing Feed (m³): 0 Mobile Units: Mobile Description: Mobile Capacity: 0 Mobile Unit Certificate No.: Waste Type: domestic, commercial, non-hazardous solid-industrial					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Waste Type Other: Yes Waste Class: Other Approvals/Permits: #A 141201 IS THE COFA NO. FOR THIS SITE FOR DATES MAY 12/72 AND JAN 8/73. Approval Description: A LETTER WAS SENT TO THE CERTIFICATE HOLDER TO CORRECT AN ERROR AND TO AVOID POSSIBLE CONFUSION. THE #'s OF SOME ADDITIONAL CONDITIONS DUPLICATED THE #'s OF EXISTING CONDITIONS. THE CONDITIONS #6-15 NOW CHANGED TO #11-20. Waste Description: DOMESTIC: 70%, COMMERCIAL: 15%, NoHzSin: 10%, OTHER [DEMOLITION WASTE, TREES]: 5% Site Closing Description: CONDITION #5: DATE OF DECEMBER 31/1991 HAS BEEN CHANGED TO DEC 31/92 BY THIS NOTICE. CONDITON 5 WAS ORIGINALLY IMPOSED ON NOTICE DATED JULY 31 1987 & AMENDED ON NOTICES DATED JAN 12/89 & DEC 31/90 & NOW AMENDED BY THIS NOTICE. PDF URL: Record Type: Project Type:					
45	15 of 20	ESE/120.1	390.0	WATERLOO LANDFILL SITE (ERB ST W) WATERLOO, CITY OF ON	WDS
Certificate No.: A140301 Issue Date: 12/22/1997 Status: Approved Application Status: Concession: Lot: WESTERN 1/3 OF G.C.T. 40 EAST OF TWP. ROAD 41 SOUTH OF COUNTY RD. #9 Region/County: WATERLOO, WEST CENTRAL/R.M. OF Proponent: WATERLOO,REG. MUN. OF Address: MARSLAND CENTRE, 20 ERB ST W City: WATERLOO ONTARIO Facility Type: Landfill District Office: Cambridge Municipalities Served: CITY OF WATERLOO, CITY OF KITCHENER, TWP. OF WOOLWICH, TWP. OF WILMOT, TWP. OF WELLESLEY POPULATION SERVED: 235,000 (as on application dated May 29,85) Total Area (ha): 64.8 Landfill Capacity (m³): 0 Landfill Monitoring: groundwater, surface water Landfill Control Type: leachate, surface water, groundwater Est. Closure Date: Transfer Area (ha): 0 Transfer Capacity (m³): 0 Transfer Sites Certificate No.: Incinerator Area (ha): 0 Incinerator Capacity (t): 0 Processing Area (m³): 0 Processing Capacity (m³/d): 0 Processing Volume (m³): 0 Processing Feed (m³): 0 Mobile Units: Mobile Description: Mobile Capacity: 0 Mobile Unit Certificate No.: Waste Type: domestic, commercial, non-hazardous solid-industrial Waste Type Other: Yes Waste Class: Other Approvals/Permits: #A 141201 IS THE COFA NO. FOR THIS SITE FOR DATES MAY 12/72 AND JAN 8/73. Approval Description: A LETTER WAS SENT TO THE CERTIFICATE HOLDER TO CORRECT AN ERROR AND TO AVOID POSSIBLE CONFUSION. THE #'s OF SOME ADDITIONAL CONDITIONS DUPLICATED THE #'s OF EXISTING CONDITIONS. THE CONDITIONS #6-15 NOW CHANGED TO #11-20. Waste Description: DOMESTIC: 70%, COMMERCIAL: 15%, NoHzSin: 10%, OTHER [DEMOLITION WASTE, TREES]: 5% Site Closing Description: CONDITION #5: DATE OF DECEMBER 31/1991 HAS BEEN CHANGED TO DEC 31/92 BY THIS NOTICE. CONDITION 5 WAS ORIGINALLY IMPOSED ON NOTICE DATED JULY 31 1987 & AMENDED ON NOTICES DATED JAN 12/89 & DEC 31/90 & NOW AMENDED BY THIS NOTICE. PDF URL: Record Type: Project Type:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
45	16 of 20	ESE/120.1	390.0	WATERLOO LANDFILL SITE (ERB ST. W.) TOWNSHIP OF WATERLOO ON	WDS
Certificate No.: A140301 Issue Date: 08/11/1975 Status: Application Status: Concession: Lot: WESTERN 1/3 OF G.C.T. 40* EAST OF TWP. ROAD 41* SOUTH OF COUNTY ROAD #9* Region/County: WEST CENTRAL/R.M. OF WATERLOO Proponent: REG. MUN. OF WATERLOO Address: MARSLAND CENTRE,20 ERB ST. W City: WATERLOO ONTARIO Facility Type: Landfill District Office: Cambridge Municipalities Served: POPULATION SERVED: 50,000 (as on application dated Apr. 14/72) Total Area (ha): 70 Landfill Capacity (m³): 0 Landfill Monitoring: Landfill Control Type: Est. Closure Date: 12/31/22 Transfer Area (ha): 0 Transfer Capacity (m³): 0 Transfer Sites Certificate No.: Incinerator Area (ha): 0 Incinerator Capacity (t): 0 Processing Area (m³): 0 Processing Capacity (m³/d): 0 Processing Volume (m³): 0 Processing Feed (m³): 0 Mobile Units: Mobile Description: Mobile Capacity: 0 Mobile Unit Certificate No.: Waste Type: domestic, commercial, non-hazardous solid-industrial Waste Type Other: Yes Waste Class: Other Approvals/Permits: A #141201 WAS ISSUED FOR COFA'S DATED JAN.8/73 AND MAY 12/72. Approval Description: Waste Description: DOMESTIC: 70%, COMMERCIAL: 15%, NoHzSIn: 10%, OTHER [DEMOLITION WASTE, TREES]: 5% Site Closing Description: ANTICIPATED LIFETIME: 50 YEARS (as on application dated Apr.14/72) PDF URL: Record Type: Project Type:					
45	17 of 20	ESE/120.1	390.0	WATERLOO LANDFILL SITE (ERB ST W) WATERLOO, CITY OF ON	WDS
Certificate No.: A140301 Issue Date: 07/31/1996 Status: Approved Application Status: Concession: Lot: WESTERN 1/3 OF G.C.T. 40 EAST OF TWP. ROAD 41 SOUTH OF COUNTY RD. #9 Region/County: WATERLOO, WEST CENTRAL/R.M. OF Proponent: WATERLOO,REG. MUN. OF Address: MARSLAND CENTRE, 20 ERB ST W City: WATERLOO ONTARIO Facility Type: Landfill					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
District Office:		Cambridge			
Municipalities Served:		CITY OF WATERLOO, CITY OF KITCHENER, TWP. OF WOOLWICH, TWP. OF WILMOT, TWP. OF WELLESLEY POPULATION SERVED: 235,000 (as on application dated May 29,85)			
Total Area (ha):		64.8			
Landfill Capacity (m³):		0			
Landfill Monitoring:		groundwater, surface water			
Landfill Control Type:		leachate, surface water, groundwater			
Est. Closure Date:					
Transfer Area (ha):		0			
Transfer Capacity (m³):		0			
Transfer Sites Certificate No.:					
Incinerator Area (ha):		0			
Incinerator Capacity (t):		0			
Processing Area (m³):		0			
Processing Capacity (m³/d):		0			
Processing Volume (m³):		0			
Processing Feed (m³):		0			
Mobile Units:					
Mobile Description:					
Mobile Capacity:		0			
Mobile Unit Certificate No.:					
Waste Type:		domestic, commercial, non-hazardous solid-industrial			
Waste Type Other:		Yes			
Waste Class:					
Other Approvals/Permits:		#A 141201 IS THE COFA NO. FOR THIS SITE FOR DATES MAY 12/72 AND JAN 8/73.			
Approval Description:		A LETTER WAS SENT TO THE CERTIFICATE HOLDER TO CORRECT AN ERROR AND TO AVOID POSSIBLE CONFUSION. THE #'s OF SOME ADDITIONAL CONDITIONS DUPLICATED THE #'s OF EXISTING CONDITIONS. THE CONDITIONS #6-15 NOW CHANGED TO #11-20.			
Waste Description:		DOMESTIC: 70%, COMMERCIAL: 15%, NoHzSin: 10%, OTHER [DEMOLITION WASTE, TREES]: 5%			
Site Closing Description:		CONDITION #5: DATE OF DECEMBER 31/1991 HAS BEEN CHANGED TO DEC 31/92 BY THIS NOTICE. CONDITON 5 WAS ORIGINALLY IMPOSED ON NOTICE DATED JULY 31 1987 & AMENDED ON NOTICES DATED JAN 12/89 & DEC 31/90 & NOW AMENDED BY THIS NOTICE.			
PDF URL:					
Record Type:					
Project Type:					

45	18 of 20	ESE/120.1	390.0	WATERLOO LANDFILL SITE (ERB ST. W.) TOWNSHIP OF WATERLOO ON	WDS
Certificate No.:		A140301			
Issue Date:		06/30/1974			
Status:					
Application Status:					
Concession:					
Lot:		WESTERN 1/3 OF G.C.T. 40* EAST OF TWP. ROAD 41* SOUTH OF COUNTY ROAD #9*			
Region/County:		WEST CENTRAL/R.M. OF WATERLOO			
Proponent:		REG. MUN. OF WATERLOO			
Address:		MARSLAND CENTRE,20 ERB ST. W			
City:		WATERLOO ONTARIO			
Facility Type:		Landfill			
District Office:		Cambridge			
Municipalities Served:		POPULATION SERVED: 50,000 (as on application dated Apr. 14/72)			
Total Area (ha):		70			
Landfill Capacity (m³):		0			
Landfill Monitoring:					
Landfill Control Type:					
Est. Closure Date:		12/31/22			
Transfer Area (ha):		0			
Transfer Capacity (m³):		0			
Transfer Sites Certificate No.:					
Incinerator Area (ha):		0			
Incinerator Capacity (t):		0			
Processing Area (m³):		0			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Processing Capacity (m³/d): 0 Processing Volume (m³): 0 Processing Feed (m³): 0 Mobile Units: Mobile Description: Mobile Capacity: 0 Mobile Unit Certificate No.: Waste Type: domestic, commercial, non-hazardous solid-industrial Waste Type Other: Yes Waste Class: Other Approvals/Permits: A #141201 WAS ISSUED FOR COFA'S DATED JAN.8/73 AND MAY 12/72. Approval Description: Waste Description: DOMESTIC: 70%, COMMERCIAL: 15%, NoHzSin: 10%, OTHER [DEMOLITION WASTE, TREES]: 5% Site Closing Description: ANTICIPATED LIFETIME: 50 YEARS (as on application dated Apr.14/72) PDF URL: Record Type: Project Type:					
45	19 of 20	ESE/120.1	390.0	WATERLOO LANDFILL SITE (ERB ST W) CITY OF WATERLOO ON	WDS
Certificate No.: A140301 Issue Date: 12/31/1990 Status: Approved Application Status: Concession: Lot: WESTERN 1/3 OF G.C.T. 40 EAST OF TWP. ROAD 41 SOUTH OF COUNTY RD. #9 Region/County: WEST CENTRAL/R.M. OF WATERLOO Proponent: REG.MUN. OF WATERLOO Address: MARSLAND CENTRE, 20 ERB ST W City: WATERLOO ONTARIO Facility Type: Landfill District Office: Cambridge Municipalities Served: CITY OF WATERLOO, CITY OF KITCHENER, TWP. OF WOOLWICH, TWP. OF WILMOT, TWP. OF WELLESLEY POPULATION SERVED: 235,000 (as on application dated May 29,85) Total Area (ha): 64.8 Landfill Capacity (m³): 0 Landfill Monitoring: groundwater, surface water Landfill Control Type: leachate, surface water, groundwater Est. Closure Date: Transfer Area (ha): 0 Transfer Capacity (m³): 0 Transfer Sites Certificate No.: Incinerator Area (ha): 0 Incinerator Capacity (t): 0 Processing Area (m³): 0 Processing Capacity (m³/d): 0 Processing Volume (m³): 0 Processing Feed (m³): 0 Mobile Units: Mobile Description: Mobile Capacity: 0 Mobile Unit Certificate No.: Waste Type: domestic, commercial, non-hazardous solid-industrial Waste Type Other: Yes Waste Class: Other Approvals/Permits: #A 141201 IS THE COFA NO. FOR THIS SITE FOR DATES MAY 12/72 AND JAN 8/73. Approval Description: NOTICE: THE TERMS AND CONDITIONS OF P COFA DATED SEP 19/86 HAVE BEEN ALTERED BY THE ADDITION OF CLAUSE i) AND j) TO CONDITON 4. 31/87. ALSO, SEE AMENDMENT TO CONDITION 5 UNDER SITE CLOSURE. Waste Description: DOMESTIC: 70%, COMMERCIAL: 15%, NoHzSin: 10%, OTHER [DEMOLITION WASTE, TREES]: 5% Site Closing Description: CONDITION #5: DATE OF DECEMBER 31/1990 HAS BEEN CHANGED TO DEC 31/91 BY THIS NOTICE. CONDITON 5 WAS ORIGINALLY IMPOSED ON NOTICE DATED JULY 31 1987 AND AMENDED ON NOTICE					

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Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Sec. Water Use::				Easting NAD83::	
Final Well Status::		Test Hole		Northing NAD83::	
Specific Capacity::				Zone::	
Municipality:		WILMOT TOWNSHIP		UTM Reliability::	
County:		WATERLOO			
Bore Hole Information					
--		--			
Bore Hole ID:		10453820			
DP2BR:		318			
Code OB:		r			
Code OB Description:		Bedrock			
Open Hole:					
Date Completed:		04-OCT-57			
Remarks:					
Zone:		17			
East 83:		533664			
North 83:		4809773			
UTMRC:		5			
UTMRC Description:		margin of error : 100 m - 300 m			
Location Method:		p5			
Org CS:					
Elevation:		393.07			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Overburden and Bedrock					
Materials Interval					
--		--			
Formation ID:		932557306			
Layer:		1			
General Color:					
Most Common Material:		TOPSOIL			
Other Materials:					
Other Materials:					
Formation Top Depth:		0			
Formation End Depth:		1			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557307			
Layer:		2			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		1			
Formation End Depth:		16			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557308			
Layer:		3			
General Color:		BLUE			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		16			
Formation End Depth:		28			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557309			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Layer:		4			
General Color:					
Most Common Material:		SILT			
Other Materials:					
Other Materials:					
Formation Top Depth:		28			
Formation End Depth:		51			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557310			
Layer:		5			
General Color:					
Most Common Material:		FINE SAND			
Other Materials:					
Other Materials:					
Formation Top Depth:		51			
Formation End Depth:		65			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557311			
Layer:		6			
General Color:					
Most Common Material:		MEDIUM SAND			
Other Materials:					
Other Materials:					
Formation Top Depth:		65			
Formation End Depth:		95			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557312			
Layer:		7			
General Color:					
Most Common Material:		MEDIUM SAND			
Other Materials:		CLAY			
Other Materials:					
Formation Top Depth:		95			
Formation End Depth:		111			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557313			
Layer:		8			
General Color:		BROWN			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		111			
Formation End Depth:		123			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557314			
Layer:		9			
General Color:		BLUE			
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		123			
Formation End Depth:		147			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557315			
Layer:		10			
General Color:					
Most Common Material:		SILT			
Other Materials:		MEDIUM SAND			
Other Materials:					
Formation Top Depth:		147			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Formation End Depth:		217			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557316			
Layer:		11			
General Color:					
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		217			
Formation End Depth:		246			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557317			
Layer:		12			
General Color:					
Most Common Material:		CLAY			
Other Materials:		GRAVEL			
Other Materials:		BOULDERS			
Formation Top Depth:		246			
Formation End Depth:		302			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557318			
Layer:		13			
General Color:					
Most Common Material:		CLAY			
Other Materials:		BOULDERS			
Other Materials:					
Formation Top Depth:		302			
Formation End Depth:		314			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557319			
Layer:		14			
General Color:					
Most Common Material:		CLAY			
Other Materials:					
Other Materials:					
Formation Top Depth:		314			
Formation End Depth:		318			
Formation End Depth UOM:		ft			
--		--			
Formation ID:		932557320			
Layer:		15			
General Color:					
Most Common Material:		ROCK			
Other Materials:					
Other Materials:					
Formation Top Depth:		318			
Formation End Depth:		321			
Formation End Depth UOM:		ft			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		966502370			
Method Construction Code:		2			
Method Construction:		Rotary (Convent.)			
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		11002390			
Casing Number:		1			
Comment:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Alt Name:					
--		--			
Construction Record - Casing					
--		--			
Casing ID:		930737410			
Layer:		1			
Open Hole or Material:					
Depth From:					
Depth To:					
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
--		--			
--		--			
47	1 of 13	SE/214.6	391.7	REGION OF WATERLOO 925 Erb Street West Waterloo ON N2J3Z4	NPRI
Longitude:					
		-80.5787			
NPRI #:					
		0000010399			
Year:					
		2011			
Latitude:					
		43.4418			
--Details--					
Units:		tonnes			
Air:		7.846			
Water:					
Substances Released:		PM - Total Particulate Matter			
Land:					
Units:					
Air:		tonnes			
		5.9058			
Water:					
Substances Released:		PM10 - Particulate Matter <= 10 Microns			
Land:					
Units:					
Air:		tonnes			
		.8999			
Water:					
Substances Released:		PM2.5 - Particulate Matter <= 2.5 Microns			
Land:					
47	2 of 13	SE/214.6	391.7	REGION OF WATERLOO 925 Erb Street West Waterloo ON N2J3Z4	NPRI
Longitude:					
		-80.5787			
NPRI #:					
		0000010399			
Year:					
		2007			
Latitude:					
		43.4418			
--Details--					
Units:		tonnes			
Air:		6.216			
Water:					
Substances Released:		PM - Total Particulate Matter			
Land:					
Units:					
Air:		tonnes			
		4.917			
Water:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Substances Released: Land:		PM10 - Particulate Matter <= 10 Microns			
Units:		tonnes			
Air:		1.566			
Water:					
Substances Released: Land:		PM2.5 - Particulate Matter <= 2.5 Microns			
47	3 of 13	SE/214.6	391.7	REGION OF WATERLOO, WASTE MANAGEMENT DIVISION 925 Erb Street West Waterloo ON N2J3Z4	NPRI
Longitude:		-80.5787			
NPRI #:		0000010399			
Year:		2012			
Latitude:		43.4418			
--Details--					
Units:		tonnes			
Air:		14.7175			
Water:					
Substances Released: Land:		PM - Total Particulate Matter			
Units:		tonnes			
Air:		11.0475			
Water:					
Substances Released: Land:		PM10 - Particulate Matter <= 10 Microns			
Units:		tonnes			
Air:		1.5675			
Water:					
Substances Released: Land:		PM2.5 - Particulate Matter <= 2.5 Microns			
47	4 of 13	SE/214.6	391.7	REGION OF WATERLOO 925 Erb Street West Waterloo ON N2J3Z4	NPRI
Longitude:		-80.5787			
NPRI #:		0000010399			
Year:		2005			
Latitude:		43.4418			
--Details--					
Units:		tonnes			
Air:					
Water:					
Substances Released: Land:		PM - Total Particulate Matter			
Units:		tonnes			
Air:		4.112			
Water:					
Substances Released: Land:		PM10 - Particulate Matter <= 10 Microns			
Units:		tonnes			

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Air: Water: Substances Released: Land:		.604			
		PM2.5 - Particulate Matter <= 2.5 Microns			
47	5 of 13	SE/214.6	391.7	REGION OF WATERLOO 925 Erb Street West Waterloo ON N2J3Z4	NPRI
Longitude: NPRI #: Year: Latitude:		-80.5787 0000010399 2003 43.4418			
--Details--					
Units:		tonnes			
Air:		4.218			
Water:					
Substances Released:		PM10 - Particulate Matter <= 10 Microns			
Land:					
Units:		tonnes			
Air:		.609			
Water:					
Substances Released:		PM2.5 - Particulate Matter <= 2.5 Microns			
Land:					
47	6 of 13	SE/214.6	391.7	REGION OF WATERLOO 925 Erb Street West Waterloo ON N2J3Z4	NPRI
Longitude: NPRI #: Year: Latitude:		-80.5787 0000010399 2010 43.4418			
--Details--					
Units:		tonnes			
Air:		9.3345			
Water:					
Substances Released:		PM - Total Particulate Matter			
Land:					
Units:		tonnes			
Air:		7.007			
Water:					
Substances Released:		PM10 - Particulate Matter <= 10 Microns			
Land:					
Units:		tonnes			
Air:		1.002			
Water:					
Substances Released:		PM2.5 - Particulate Matter <= 2.5 Microns			
Land:					
47	7 of 13	SE/214.6	391.7	REGION OF WATERLOO, WASTE MANAGEMENT DIVISION 0 - 925 Erb Street West Waterloo ON N2J3Z4	NPRI

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Longitude:		-80.5787			
NPRI #:		0000010399			
Year:		2013			
Latitude:		43.4418			
 --Details--					
Units:		tonnes			
Air:		7.5822			
Water:					
Substances Released:		PM - Total Particulate Matter			
Land:					
Units:		tonnes			
Air:		.4122			
Water:					
Substances Released:		PM10 - Particulate Matter <= 10 Microns			
Land:					
Units:		tonnes			
Air:		.8222			
Water:					
Substances Released:		PM2.5 - Particulate Matter <= 2.5 Microns			
Land:					
<u>47</u>	8 of 13	SE/214.6	391.7	REGION OF WATERLOO 925 Erb Street West Waterloo ON N2J3Z4	NPRI
Longitude:		-80.5787			
NPRI #:		0000010399			
Year:		2004			
Latitude:		43.4418			
 --Details--					
Units:		tonnes			
Air:					
Water:					
Substances Released:		Nitrous oxide			
Land:					
Units:		tonnes			
Air:					
Water:					
Substances Released:		Nitrogen oxides (expressed as NO2)			
Land:					
Units:		tonnes			
Air:					
Water:					
Substances Released:		Carbon dioxide			
Land:					
Units:		tonnes			
Air:					
Water:					
Substances Released:		Carbon monoxide			
Land:					
Units:		tonnes			
Air:					
Water:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Substances Released: Land:		Sulphur dioxide			
Units: Air:		tonnes			
Water:					
Substances Released: Land:		Methane			
Units: Air:		tonnes			
Water:					
Substances Released: Land:		HFC-134a Hydrofluorocarbon			
Units: Air:		tonnes			
Water:					
Substances Released: Land:		PM - Total Particulate Matter			
Units: Air:		tonnes 7.664			
Water:					
Substances Released: Land:		PM10 - Particulate Matter <= 10 Microns			
Units: Air:		tonnes 1.083			
Water:					
Substances Released: Land:		PM2.5 - Particulate Matter <= 2.5 Microns			
Units: Air:		tonnes			
Water:					
Substances Released: Land:		Volatile Organic Compounds (VOCs)			
Units: Air:					
Water:					
Substances Released: Land:					
Units: Air:					
Water:					
Substances Released: Land:					
Units: Air:					
Water:					
Substances Released: Land:					
Units: Air:					
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Substances Released: Land:					
Units: Air:					
Water:					
Substances Released: Land:					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Water: Substances Released: PM2.5 - Particulate Matter <= 2.5 Microns Land:					
47	10 of 13	SE/214.6	391.7	Region of Waterloo, Waste Management Division 0 - 925 Erb Street West Waterloo ON N2J3Z4	NPRI
Longitude: -80.5787 NPRI #: 0000010399 Year: 2014 Latitude: 43.4418					
--Details--					
Units: tonnes Air: 11.7455 Water: Substances Released: PM10 - Particulate Matter <= 10 Microns Land:					
Units: tonnes Air: 15.6455 Water: Substances Released: PM - Total Particulate Matter Land:					
Units: tonnes Air: 1.6855 Water: Substances Released: PM2.5 - Particulate Matter <= 2.5 Microns Land:					
47	11 of 13	SE/214.6	391.7	REGION OF WATERLOO 925 Erb Street West Waterloo ON N2J 3Z4	NPRI
Longitude: -80.5787 NPRI #: 0000010399 Year: 2002 Latitude: 43.4418					
--Details--					
Units: tonnes Air: 5.541 Water: Substances Released: PM10 - Particulate Matter <= 10 Microns Land:					
Units: tonnes Air: 1.208 Water: Substances Released: PM2.5 - Particulate Matter <= 2.5 Microns Land:					
47	12 of 13	SE/214.6	391.7	REGION OF WATERLOO 925 Erb Street West Waterloo ON N2J3Z4	NPRI
Longitude: -80.5787					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
NPRI #:		0000010399			
Year:		2006			
Latitude:		43.4418			
 --Details--					
Units:		tonnes			
Air:					
Water:					
Substances Released:		PM - Total Particulate Matter			
Land:					
Units:		tonnes			
Air:		6.644			
Water:					
Substances Released:		PM10 - Particulate Matter <= 10 Microns			
Land:					
Units:		tonnes			
Air:		.967			
Water:					
Substances Released:		PM2.5 - Particulate Matter <= 2.5 Microns			
Land:					
<u>47</u>	13 of 13	SE/214.6	391.7	REGION OF WATERLOO 925 Erb Street West Waterloo ON N2J3Z4	NPRI
Longitude:		-80.5787			
NPRI #:		0000010399			
Year:		2009			
Latitude:		43.4418			
 --Details--					
Units:		tonnes			
Air:		5.765			
Water:					
Substances Released:		PM - Total Particulate Matter			
Land:					
Units:		tonnes			
Air:		4.366			
Water:					
Substances Released:		PM10 - Particulate Matter <= 10 Microns			
Land:					
Units:		tonnes			
Air:		.759			
Water:					
Substances Released:		PM2.5 - Particulate Matter <= 2.5 Microns			
Land:					
<u>48</u>	1 of 2	ENE/222.7	378.4	628 MONTPELLIER DR, WATERLOO ON	PINC
Incident ID:				Health Impact:	
Incident No:	1594070			Environment Impact:	
Type:	FS-Pipeline Incident			Property Damage:	No
Status Code:	Pipeline Damage Reason Est			Service Interrupt:	
Fuel Occurrence Tp:				Enforce Policy:	Yes
Fuel Type:				Public Relation:	
Tank Status:	RC Established			Pipeline System:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Task No: 5399473 Spills Action Centre: Method Details: E-mail Fuel Category: Natural Gas Date of Occurrence: Occurrence Start Date: 2015/03/13 Operation Type: Pipeline Type: Regulator Type: Summary: 628 MONTPELLIER DR, WATERLOO - PIPELINE HIT - 1 ¼" Reported By: Steve Harrison - UNION GAS Affiliation: Occurrence Desc: Damage Reason: Excavation practices not sufficient Notes:					
Depth: Pipe Material: PSIG: Attribute Category: FS-Perform P-line Inc Invest Regulator Location:					
48	2 of 2	ENE/222.7	378.4	Union Gas<UNOFFICIAL> 628 Montpelier dr Waterloo ON	SPL
Ref No: 4651-9UHNLE Contaminant Code: 35 Contaminant Name: NATURAL GAS (METHANE) Contaminant Quantity: 0 other - see incident description Incident Cause: Leak/Break Incident Dt: 3/11/2015 Incident Reason: Operator/Human Error Incident Summary: TSSA: 1 1/4 line strike - made safe- MOE Reported Dt: 3/11/2015 Environmental Impact: Nature of Impact: Air Receiving Medium: SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill Sector Source Type: Receiving Environment: Incident Event: Site Municipality: Waterloo					
49	1 of 1	NNW/228.4	395.7	lot 41 WATERLOO ON	WWIS
Well ID: 7042041 Construction Date:: Primary Water Use:: Sec. Water Use:: Final Well Status:: Specific Capacity:: Municipality: WILMOT TOWNSHIP County: WATERLOO Lot: 041 Concession: Concession Name: Easting NAD83:: Northing NAD83:: Zone:: UTM Reliability::					
Bore Hole Information -- Bore Hole ID: 11764539 DP2BR: Code OB: -- Code OB Description: No formation data Open Hole: Date Completed: 26-SEP-06 Remarks: Zone: 17 East 83: 533343					

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
North 83:		4811009			
UTMRC:		3			
UTMRC Description:		margin of error : 10 - 30 m			
Location Method:		wwr			
Org CS:		UTM83			
Elevation:		399.02			
Elevrc:					
Elevrc Description:					
Location Source Date:					
Source Revision Comment:					
Improvement Location Source:					
Improvement Location Method:					
Supplier Comment:					
Spatial Status:					
--		--			
Annular Space/Abandonment Sealing Record					
--		--			
Plug ID:		933316121			
Layer:		1			
Plug From:		13			
Plug To:		11			
Plug Depth UOM:		m			
--		--			
Plug ID:		933316122			
Layer:		2			
Plug From:		11			
Plug To:		5			
Plug Depth UOM:		m			
--		--			
Plug ID:		933316123			
Layer:		3			
Plug From:		5			
Plug To:		3			
Plug Depth UOM:		m			
--		--			
Method of Construction & Well Use					
--		--			
Method Construction ID:		967042041			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
--		--			
Pipe Information					
--		--			
Pipe ID:		11772259			
Casing Number:		1			
Comment:					
Alt Name:					
Hole Diameter					
--		--			
Hole ID:		11850824			
Diameter:		48			
Depth From:					
Depth To:					
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
--		--			
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Unplottable Summary

Total: **52** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	WATERLOO CITY	COLUMBIA ST.	WATERLOO CITY ON	
CA	Woolwich Estates Limited	Woolwich Estates Subdivision Part of Lot 1, Reference Plan 58R-16041	Waterloo ON	
CA	The Corporation of the City of Waterloo	Waterloo Park & University of Waterloo	Waterloo ON	
CA	UNIVERSITY OF WATERLOO	WILLIAM DAVIS COMPUTER RES.CNT	WATERLOO CITY ON	
CA	UNIVERSITY OF WATERLOO C/O BRUCE CAMERON	STORMWATER MANAGEMENT FACILITY	WATERLOO CITY ON	
CA	UNIVERSITY OF WATERLOO C/O BRUCE CAMERON	NORTH CAMPUS STUDENT TOWNHOUSE	WATERLOO CITY ON	
CA	UNIVERSITY OF WATERLOO C/O BRUCE CAMERON	NORTH CAMPUS STUDENT TOWNHOUSE	WATERLOO CITY ON	
CA	UNIVERSITY OF WATERLOO	CHEMISTRY II BLDG.	WATERLOO CITY ON	
CA	University of Waterloo Research and Technology Park		Waterloo ON	
CA	R.M. OF WATERLOO PRESSURE ZONE 4	COLUMBIA STREET	WATERLOO CITY ON	
CA	The Corporation of the City of Waterloo	Columbia Street	Waterloo ON	
CA	R.M. OF WATERLOO 7-0144- 88	ERB STREET	WATERLOO CITY ON	
CA	REG.MUNIC.OF WATERLOO	ERB ST.	WATERLOO ON	
CA	REG.MUNIC.OF WATERLOO	ERB ST.	WATERLOO ON	
CA	University of Waterloo Research and Technology Park		Waterloo ON	
CA	University of Waterloo		Waterloo ON	
CA	R.M. OF WATERLOO	ERB ST.	WATERLOO CITY ON	

CA	REG.MUNIC.OF WATERLOO	ERB ST.	WATERLOO ON	
CA	KURT & ROSE KAEMMLE - PT. LOT 9/RP 496	ERB STREET	WATERLOO CITY ON	
CA	R.M. OF WATERLOO	ERB STREET	WATERLOO CITY ON	
CA	WATERLOO CITY 7-0156-88	ERB STREET	WATERLOO CITY ON	
CA	R.M.OF WATERLOO	ERB STREET REG. RD. N. 9	WATERLOO CITY ON	
CA	The Corporation of the City of Waterloo	Erb St	Waterloo ON	
CA	The Regional Municipality of Waterloo	Erb St	Waterloo ON	
CA	WILMOT TWP. REPLACEMENT WELL SUBM. PUMP	WELL W6B ERB STREET REG. RD.9	WILMOT TWP. ON	
CA	WATERLOO CITY 3-0176-88	ERB ST. WEST	WATERLOO CITY ON	
CA	R.M. OF WATERLOO	ERB STREET W.	WATERLOO CITY ON	
CA	Waterloo Region Emergency Services Training & Research Complex	Erb Street West	Wilmot ON	
CA	R.M. OF WATERLOO 3-0161-88	ERB STREET	WATERLOO CITY ON	
CA	THE CITY	ERB ST.	WATERLOO ON	
CA	University of Waterloo		Waterloo ON	
CFOT	LUTHERAN CHURCH - CANADA EAST DISTRICT	RR 4 HWY 9	KITCHENER ON	
ECA	The University of Waterloo	Parts 1-6 of Reference Plan 58R-16084	Waterloo ON	
ECA	The Regional Municipality of Waterloo	Erb Street West	Waterloo ON	
ECA	University of Waterloo	Waterloo	ON	
ECA	The University of Waterloo	Waterloo	ON	
ECA	The University of Waterloo	Parts 1-6 of Reference Plan 58R-16084	Waterloo ON	
ECA	West Waterloo Retail GP Limited		City of Waterloo ON	
GEN	SADDLERY HARDWARE	R.R. #1, LOT 1, G.C.T.	WATERLOO ON	N2J 4G8

GEN	SADDLERY HARDWARE 34-564	R.R. #1, LOT 1, G.C.T.	WATERLOO ON	N2J 4G8
PTTW	Foxboro Green Inc	South of Erbs Street	Township of Wilmot ON	
PTTW	Foxwood Golf Course	Erb's Road	Township of Wilmot ON	
PTTW	Foxwood Golf Course	Erbs Road	Township of Wilmot ON	
PTTW	Westhill Pitch-N-Putt Inc	Lot 40 GCT	Waterloo ON	
REC	WATERLOO, REGIONAL MUNICIPALITY OF	PART LOT 40, GERMAN COMPANY TRACT C/O 20 ERB STREET	WATERLOO ON	N2J 4G7
REC	WATERLOO, REGIONAL MUNICIPALITY OF	PART LOT 40, GERMAN COMPANY TRACT C/O 150 FREDERICK ST.	KITCHENER ON	N2G 4J3
SPL	ALPINE PLANT FOODS LTD.	ERB STREET. TANK TRUCK (CARGO)	WILMOT TOWNSHIP ON	
SPL	UNKNOWN	RD. #4 (WILMOT LINE)	WILMOT TWP. ON	
SPL	UNIVERSITY OF WATERLOO	BESIDE THE GENERAL SERVICES COMPLEX, NORTH CAMPUS U. OF WATERLOO STORAGE FACILITY	WATERLOO CITY ON	
SPL	UNIVERSITY OF WATERLOO	CAMPUS-SOUTH WEST SECTION. MOTOR VEHICLE (OPERATING FLUID)	WATERLOO CITY ON	
SPL	UNKNOWN	LAUREL CREEK - BEHIND TOWERS PLAZA ERB ST.	WATERLOO CITY ON	
SPL	UNIVERSITY OF WATERLOO	LAUREL CREEK AT WATERLOO PARK BEHIND THE BANDSHELL 200 UNIVERSITY AVE. WATERLOO, ONT	WATERLOO CITY ON	

Unplottable Report

Site: **WATERLOO CITY**
COLUMBIA ST. WATERLOO CITY ON

Database:
CA

Certificate #: 3-1499-89-
Application Year: 89
Issue Date: 8/2/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: **Woolwich Estates Limited**
Woolwich Estates Subdivision Part of Lot 1, Reference Plan 58R-16041 Waterloo ON

Database:
CA

Certificate #: 4079-8KDHR5
Application Year: 2011
Issue Date: 8/3/2011
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: **The Corporation of the City of Waterloo**
Waterloo Park & University of Waterloo Waterloo ON

Database:
CA

Certificate #: 6839-5NGN38
Application Year: 2003
Issue Date: 6/18/2003
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: **UNIVERSITY OF WATERLOO**
WILLIAM DAVIS COMPUTER RES.CNT WATERLOO CITY ON

Database:
CA

Certificate #: 8-2242-87-

Application Year: 87
Issue Date: 10/23/1987
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: HVAC EQUIP. & EXHAUST FOR MANU. PROCESS
Contaminants:: Odour/Fumes
Emission Control:: No Controls

Site: UNIVERSITY OF WATERLOO C/O BRUCE CAMERON
STORMWATER MANAGEMENT FACILITY WATERLOO CITY ON

Database:
CA

Certificate #: 3-0401-87-
Application Year: 87
Issue Date: 4/7/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: UNIVERSITY OF WATERLOO C/O BRUCE CAMERON
NORTH CAMPUS STUDENT TOWNHOUSE WATERLOO CITY ON

Database:
CA

Certificate #: 3-0400-87-
Application Year: 87
Issue Date: 4/7/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: UNIVERSITY OF WATERLOO C/O BRUCE CAMERON
NORTH CAMPUS STUDENT TOWNHOUSE WATERLOO CITY ON

Database:
CA

Certificate #: 7-0327-87-
Application Year: 87
Issue Date: 4/7/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: UNIVERSITY OF WATERLOO
CHEMISTRY II BLDG. WATERLOO CITY ON

Database:
CA

Certificate #: 8-2078-90-926
Application Year: 90
Issue Date: 4/9/92
Approval Type: Industrial air
Status: Received in 1991, Issued in 1992
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: INST. OF 6 LABORATORY FUMEHOODS
Contaminants:: Acetone, Ethyl Acetate
Emission Control:: No Controls

Site: University of Waterloo Research and Technology Park
Waterloo ON

Database:
CA

Certificate #: 8685-5DPQ8N
Application Year: 02
Issue Date: 9/9/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: The Corporation of the City of Waterloo
Client Address:: 265 Lexington Court
Client City:: Waterloo
Client Postal Code::
Project Description:: Storm and sanitary sewers on Hagey Boulevard, Wes Graham Drive, East Boundary Easement, South Boundary Easement, West Boundary Easement, and West Private Road Easement
Contaminants::
Emission Control::

Site: R.M. OF WATERLOO PRESSURE ZONE 4
COLUMBIA STREET WATERLOO CITY ON

Database:
CA

Certificate #: 7-0198-88-
Application Year: 88
Issue Date: 2/29/1988
Approval Type: Municipal water
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 Waterloo
Columbia Street Waterloo ON

Database:
CA

Certificate #: 8889-5X4RY8
Application Year: 2004
Issue Date: 3/16/2004
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: R.M. OF WATERLOO 7-0144-88
ERB STREET WATERLOO CITY ON

Database:
CA

Certificate #: 7-0156-88-
Application Year: 88
Issue Date: 2/17/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: REG.MUNIC.OF WATERLOO
ERB ST. WATERLOO ON

Database:
CA

Certificate #: 7-0682-85-006
Application Year: 85
Issue Date: 8/23/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: REG.MUNIC.OF WATERLOO
ERB ST. WATERLOO ON

Database:
CA

Certificate #: 3-0924-85-006
Application Year: 85
Issue Date: 9/5/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: University of Waterloo Research and Technology Park
Waterloo ON

Database:
CA

Certificate #: 0185-5DPPXW

Application Year: 02
Issue Date: 9/9/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name:: The Corporation of the City of Waterloo
Client Address:: 265 Lexington Court
Client City:: Waterloo
Client Postal Code::
Project Description:: Watermains on Hagey Boulevard, Wes Graham Drive, South Boundary Easement, West Boundary Easement, and West Private Road Easement
Contaminants::
Emission Control::

Site: **University of Waterloo**
Waterloo ON

Database:
CA

Certificate #: 8425-6BSPGM
Application Year: 2005
Issue Date: 4/25/2005
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: **R.M. OF WATERLOO**
ERB ST. WATERLOO CITY ON

Database:
CA

Certificate #: 3-0949-89-
Application Year: 89
Issue Date: 6/7/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: **REG.MUNIC.OF WATERLOO**
ERB ST. WATERLOO ON

Database:
CA

Certificate #: 7-0554-85-006
Application Year: 85
Issue Date: 8/8/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: KURT & ROSE KAEMMLE - PT. LOT 9/RP 496
ERB STREET WATERLOO CITY ON

Database:
CA

Certificate #: 7-0522-91-
Application Year: 91
Issue Date: 5/23/1991
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: R.M. OF WATERLOO
ERB STREET WATERLOO CITY ON

Database:
CA

Certificate #: 7-0814-89-
Application Year: 89
Issue Date: 6/7/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: WATERLOO CITY 7-0156-88
ERB STREET WATERLOO CITY ON

Database:
CA

Certificate #: 7-0144-88-
Application Year: 88
Issue Date: 2/17/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: R.M.OF WATERLOO
ERB STREET REG. RD. N. 9 WATERLOO CITY ON

Database:
CA

Certificate #: 7-0655-86-
Application Year: 86
Issue Date: 6/27/1986
Approval Type: Municipal water
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 Waterloo*
 Erb St Waterloo ON

Database:
CA

Certificate #: 9579-7PVLKX
Application Year: 2009
Issue Date: 3/6/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: *The Regional Municipality of Waterloo*
 Erb St Waterloo ON

Database:
CA

Certificate #: 1899-7PUJSC
Application Year: 2009
Issue Date: 3/5/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: *WILMOT TWP. REPLACEMENT WELL SUBM. PUMP*
 WELL W6B ERB STREET REG. RD.9 WILMOT TWP. ON

Database:
CA

Certificate #: 7-0284-86-
Application Year: 86
Issue Date: 8/15/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: *WATERLOO CITY 3-0176-88*
 ERB ST. WEST WATERLOO CITY ON

Database:
CA

Certificate #: 3-0161-88-

Application Year: 88
Issue Date: 2/17/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: **R.M. OF WATERLOO**
ERB STREET W. WATERLOO CITY ON

Database:
CA

Certificate #: 8-2127-90-
Application Year: 90
Issue Date: 8/23/1990
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: DIESEL FIRE PUMP
Contaminants:: Nitrogen Oxides
Emission Control:: No Controls

Site: **Waterloo Region Emergency Services Training & Research Complex**
Erb Street West Wilmot ON

Database:
CA

Certificate #: 0288-4YTSF2
Application Year: 01
Issue Date: 8/14/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name:: Corporation of the Regional Municipality of Waterloo
Client Address:: 150 Frederick Street, Sixth Floor
Client City:: Kitchener
Client Postal Code:: N2G 4J3
Project Description:: This application is for the construction of a stormwater management facility, located at the southwest corner of the site providing quantity and quality control for approximately 9.0 hectares of the site and including a Sediment Forebay, a Wetland/Wet Pond Extended Detention area with total storage capacity of approximately 6,400 cubic meter, a maximum ponding depth of 1.8m (above the permanent pool) and discharging to a tributary of Alder Creek.
Contaminants::
Emission Control::

Site: **R.M. OF WATERLOO 3-0161-88**
ERB STREET WATERLOO CITY ON

Database:
CA

Certificate #: 3-0176-88-
Application Year: 88
Issue Date: 2/17/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::

Project Description::
Contaminants::
Emission Control::

Site: THE CITY
ERB ST. WATERLOO ON

Database:
CA

Certificate #: 7-0755-85-006
Application Year: 85
Issue Date: 8/23/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: University of Waterloo
Waterloo ON

Database:
CA

Certificate #: 2129-6B6NTU
Application Year: 2005
Issue Date: 4/7/2005
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: LUTHERAN CHURCH - CANADA EAST DISTRICT
RR 4 HWY 9 KITCHENER ON

Database:
CFOT

Licence No:		Letter Sent:	
Registration No:	200204-0714	Corrosion Protection:	
Posse File No:		Province:	
Posse Reg No:		Nbr:	
Tank Type:		Contact Name:	C/O LORNE CAMPBELL
Instance Number:		Contact Address:	275 LAWRENCE AVE
Facility Type:		Contact Address2:	
Instance Type:		Contact Suite:	
Status Name:		Contact City:	Kitchener
Fuel Type:		Contact Prov:	ON
Distributor:	BOB CAMPBELL FUELS	Contact Postal:	N2M 1Y3
Tank Material:		Tank Address:	RR 4 HWY 9
Tank Age (as of 05/1992):		Comments:	
Tank Size:			

Site: The University of Waterloo
Parts 1-6 of Reference Plan 58R-16084 Waterloo ON

Database:
ECA

Record Type:
PDF URL:

Full Address:
CofA Number: 8688-98LL5F
Date: 6/18/2013
Status: Approved
Project Type: Municipal and Private Sewage

Site: *The Regional Municipality of Waterloo*
Erb Street West Waterloo ON

Database:
[ECA](#)

Record Type:
PDF URL:
Full Address: Erb Street West City of Waterloo, Regional Municipality of Waterloo
CofA Number: 3558-9NVM4G
Date: 9/18/14
Status: Approved
Project Type: Municipal and Private Sewage

Site: *University of Waterloo*
Waterloo ON

Database:
[ECA](#)

Record Type:
PDF URL:
Full Address:
CofA Number: 2979-8PHQRP
Date: 1/13/2012
Status: Approved
Project Type: Municipal and Private Sewage

Site: *The University of Waterloo*
Waterloo ON

Database:
[ECA](#)

Record Type:
PDF URL:
Full Address:
CofA Number: 6087-8VDMRR
Date: 6/20/12
Status: Approved
Project Type: Municipal and Private Sewage

Site: *The University of Waterloo*
Parts 1-6 of Reference Plan 58R-16084 Waterloo ON

Database:
[ECA](#)

Record Type:
PDF URL:
Full Address:
CofA Number: 0929-99GQ89
Date: 12-JUL-13
Status: Approved
Project Type: Municipal and Private Sewage

Site: *West Waterloo Retail GP Limited*
City of Waterloo ON

Database:
[ECA](#)

Record Type:
PDF URL:
Full Address: West Waterloo Commercial Centre City of Waterloo, Regional Municipality of Waterloo
CofA Number: 7652-9HYJEU
Date: 4/14/14
Status: Revoked and/or Replaced
Project Type: Municipal and Private Sewage

Site: SADDLERY HARDWARE
R.R. #1, LOT 1, G.C.T. WATERLOO ON N2J 4G8

Database:
GEN

PO Box Num:
Status:
Country:
Generator #: ON1183400
Approval Yrs:: 89
SIC Code: 3069
SIC Description: OTHER HARDWARE, ETC.

Site: SADDLERY HARDWARE 34-564
R.R. #1, LOT 1, G.C.T. WATERLOO ON N2J 4G8

Database:
GEN

PO Box Num:
Status:
Country:
Generator #: ON1183400
Approval Yrs:: 92,93,94,95,96,97,98
SIC Code: 3069
SIC Description: OTHER HARDWARE, ETC.

--Details--

Waste Code: 243
Waste Description: PCB'S

Site: Foxboro Green Inc
South of Erbs Street Township of Wilmot ON

Database:
PTTW

Year: 1999
EBR Registry No.: IA9E0378
Ministry Reference Number:
Notice Type: Instrument
Instrument Type: OWRA s. 34 - Permit to take water
Proposal Date: 3/19/99
Location: Township of Wilmot
Proponent Address: Foxboro Green Inc.375 University Ave.E.,Waterloo, Ontario, N2K 3M7
Notice Date:

Site: Foxwood Golf Course
Erb's Road Township of Wilmot ON

Database:
PTTW

Year: 2000
EBR Registry No.: IA00E1662
Ministry Reference Number:
Notice Type: Instrument
Instrument Type: OWRA s. 34 - Permit to take water
Proposal Date: 10/20/00
Location: Township of Wilmot
Proponent Address: Foxwood Golf Course P.O. Box 5142, Baden, Ontario, N0B 1G0
Notice Date:

Site: Foxwood Golf Course
Erbs Road Township of Wilmot ON

Database:
PTTW

Year: 1999
EBR Registry No.: IA9E0480
Ministry Reference Number:
Notice Type: Instrument
Instrument Type: OWRA s. 34 - Permit to take water

Proposal Date:
Location: Township of Wilmot
Proponent Address: Foxwood Golf Course P.O. Box 5142, Baden, Ontario, N0B 1G0
Notice Date:

Site: **Westhill Pitch-N-Putt Inc**
Lot 40 GCT Waterloo ON

Database:
PTTW

Year: 2004
EBR Registry No.: IA04E1045
Ministry Reference Number: P03276
Notice Type: Instrument Decision
Instrument Type: Permit to take water - OWRA s. 34
Proposal Date:
Location: Lot 40 GCT, City of Waterloo, Regional Municipality of Waterloo
Proponent Address: 161 Fourth Ave. Kitchener Ontario N2C 1P3
Notice Date:

Site: **WATERLOO, REGIONAL MUNICIPALITY OF**
PART LOT 40, GERMAN COMPANY TRACT C/O 20 ERB STREET WATERLOO ON N2J 4G7

Database:
REC

Receiver #: A140301
Facility Type: LANDFILL
Approval Yrs: 92

Site: **WATERLOO, REGIONAL MUNICIPALITY OF**
PART LOT 40, GERMAN COMPANY TRACT C/O 150 FREDERICK ST. KITCHENER ON N2G 4J3

Database:
REC

Receiver #: A140301
Facility Type: LANDFILL
Approval Yrs: 93,94

Site: **ALPINE PLANT FOODS LTD.**
ERB STREET. TANK TRUCK (CARGO) WILMOT TOWNSHIP ON

Database:
SPL

Ref No: 94677
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: UNKNOWN
Incident Dt: 12/20/1993
Incident Reason: UNKNOWN
Incident Summary: ALPINE PLANT FOOD-9000 L LIQUID FERTILIZER TO GRNDFROM TANK TRUCK, REG & MOE
MOE Reported Dt: 12/20/1993
Environmental Impact: NOT ANTICIPATED
Nature of Impact: Multi Media Pollution
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 25603

Site: **UNKNOWN**
RD. #4 (WILMOT LINE) WILMOT TWP. ON

Database:
SPL

Ref No: 27555
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CAUSE (N.O.S.)

Incident Dt: 11/8/1989
Incident Reason: FIRE/EXPLOSION
Incident Summary: FIRE DEPT. -REQUESTING MOE ASSISTANCE AT FIRE INVOLVING OIL-BASED MAT'L
MOE Reported Dt: 11/8/1989
Environmental Impact:
Nature of Impact:
Receiving Medium: AIR
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 25603

Site: UNIVERSITY OF WATERLOO
BESIDE THE GENERAL SERVICES COMPLEX, NORTH CAMPUS U. OF WATERLOO STORAGE FACILITY
WATERLOO CITY ON

Database:
[SPL](#)

Ref No: 96276
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: ABOVE-GROUND TANK LEAK
Incident Dt: 2/12/1994
Incident Reason: ICE/FROST DAMAGE
Incident Summary: UNIVERSITY OF WATERLOO - 1000 L OF FURNACE OIL TO BERMED AREA FROM TANK.
MOE Reported Dt: 2/12/1994
Environmental Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 25103

Site: UNIVERSITY OF WATERLOO
CAMPUS-SOUTH WEST SECTION. MOTOR VEHICLE (OPERATING FLUID) WATERLOO CITY ON

Database:
[SPL](#)

Ref No: 70426
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: PIPE/HOSE LEAK
Incident Dt: 5/11/1992
Incident Reason: EQUIPMENT FAILURE
Incident Summary: UNIVERSITY OF WATERLOO-5LHYDRAULIC OIL FROM LIFT TRUCK HOSE TO CATCH BASIN
MOE Reported Dt: 5/11/1992
Environmental Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: WATER
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 25103

Site: UNKNOWN
LAUREL CREEK - BEHIND TOWERS PLAZA ERB ST. WATERLOO CITY ON

Database:
[SPL](#)

Ref No: 5216
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: UNKNOWN

Incident Dt: 6/16/1988
Incident Reason: UNKNOWN
Incident Summary: R.M. VERIFIED ANONYMOUS REPORT OF FISH KILL IN LAUREL CREEK.
MOE Reported Dt: 6/16/1988
Environmental Impact:
Nature of Impact:
Receiving Medium: WATER
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 25103

Site: UNIVERSITY OF WATERLOO
LAUREL CREEK AT WATERLOO PARK BEHIND THE BANDSHELL 200 UNIVERSITY AVE.
WATERLOO, ONT WATERLOO CITY ON

Database:
[SPL](#)

Ref No: 131179
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CAUSE (N.O.S.)
Incident Dt: 8/30/1996
Incident Reason: INTENTIONAL/PLANNED
Incident Summary: UNIVERSITY OF WATERLOO: RED DYE WASHED TO SEWER & LAUREL CREEK, WORKS.
MOE Reported Dt: 8/30/1996
Environmental Impact: NOT ANTICIPATED
Nature of Impact: Water course or lake
Receiving Medium: WATER
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 25103

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 2016

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: Oct 31, 2016

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

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

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: Oct 31, 2016

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 31, 2012

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial

COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial

CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Jan 2017

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-Jan 2017

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-Aug 2015

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-Nov 2016

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-Jan 2017

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-Nov 2016

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-Aug 2016

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

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include 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.

Government Publication Date: May 31, 2014

List of TSSA Expired Facilities:

Provincial

EXP

This is a list of all expired facilities that fall under the TSSA (TSSA Act & Safety Regulations), including the six regulations that exist under the Fuels Safety Division. It will include facilities such as private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. These tanks have been removed and automatically fall under the expired facilities inventory held by TSSA.

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: June 2000-Aug 2016

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-Sept 2003

Fuel Storage Tank:

Provincial

FST

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

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-Sep 2016

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 2014

TSSA Historic Incidents:

Provincial

HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. 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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

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

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, 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. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

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*

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-Feb 2016

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, 2014

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-Aug 2010

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 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: 1993-2014**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-Jan 2017**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-Oct 2016**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-Jan 2017**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**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-Oct 2016

TSSA Pipeline Incidents:

Provincial PINC

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, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: Feb 28, 2017

National Energy Board Pipeline Incidents:

Federal PIPELINE INCIDENTS

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 - Dec 2016

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-Jan 2017

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: 1986-2013

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-Dec 2016

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: Oct 31, 2016

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-Dec 2016

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: 1990-2014

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-Jan 2015

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial

VAR

The TSSA, under the Liquid Fuels Handling Code and the Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, you may apply to seek a variance from this code requirement. This is a list of all variances granted for abandoned tanks.

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: 1970-Nov 2016

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: Jun 30, 2016

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.

PROPERTY DESCRIPTION: PT. LOT 41 GERMAN COMPANY TRACT, BEING PTS. 1, 22, 23 ON 58R-18321, SAVE & EXCEPT PT. 1 ON 58R-18807; TOGETHER WITH AN EASEMENT OVER PT. 5 ON 58R-6857 AS IN 1060942; CITY OF WATERLOO

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:

DIVISION FROM 22684-4985

PIN CREATION DATE:

2016/02/17

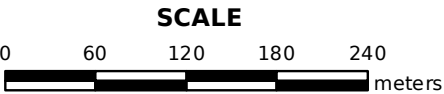
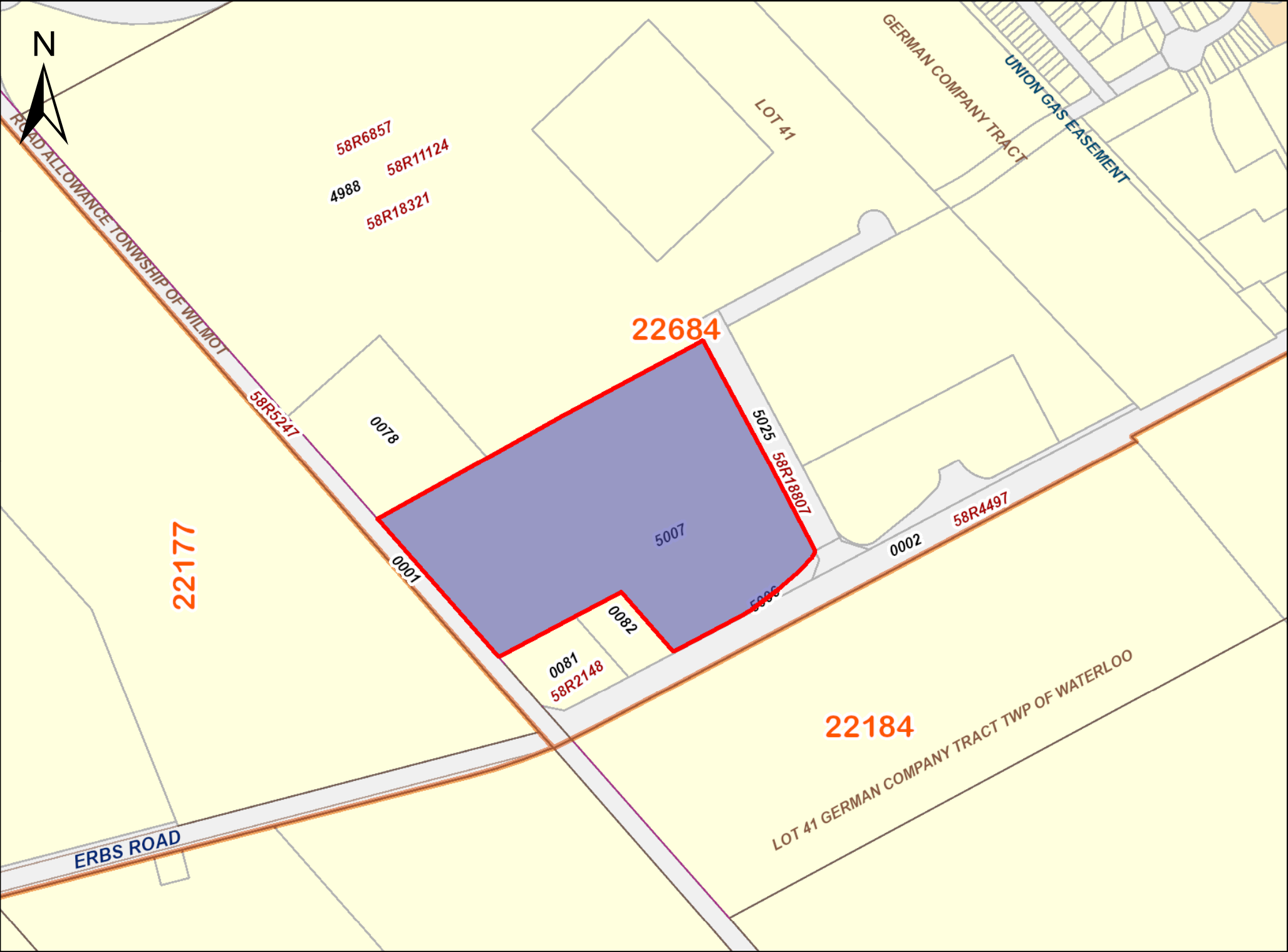
OWNERS' NAMES

THE CORPORATION OF THE CITY OF WATERLOO

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **						
**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:						
** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *						
** AND ESCHEATS OR FORFEITURE TO THE CROWN.						
** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF						
** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY						
** CONVENTION.						
** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.						
**DATE OF CONVERSION TO LAND TITLES: 2003/05/26 **						
58R18321	2014/08/27	PLAN REFERENCE				C
WR842113	2014/09/25	TRANSFER	\$3,474,981	THE CORPORATION OF THE CITY OF WATERLOO WEST WATERLOO RETAIL GP LIMITED	THE CORPORATION OF THE CITY OF WATERLOO	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.



PROPERTY INDEX MAP
WATERLOO(No. 58)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE
PROPERTY INFORMATION AS THIS MAP MAY
NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND
DOCUMENTS RECORDED IN THE LAND
REGISTRATION SYSTEM AND HAS BEEN PREPARED
FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE
RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT
REFERENCE PLANS ARE NOT ILLUSTRATED



PROPERTY DESCRIPTION: PT LT 41 GERMAN COMPANY TRACT CITY OF WATERLOO PT 8, 58R6857; WATERLOO

PROPERTY REMARKS: PLANNING ACT CONSENT AS IN 365330.

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
RE-ENTRY FROM 22684-2185

PIN CREATION DATE:
2003/05/26

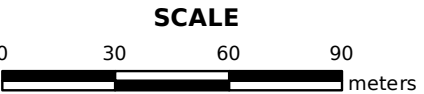
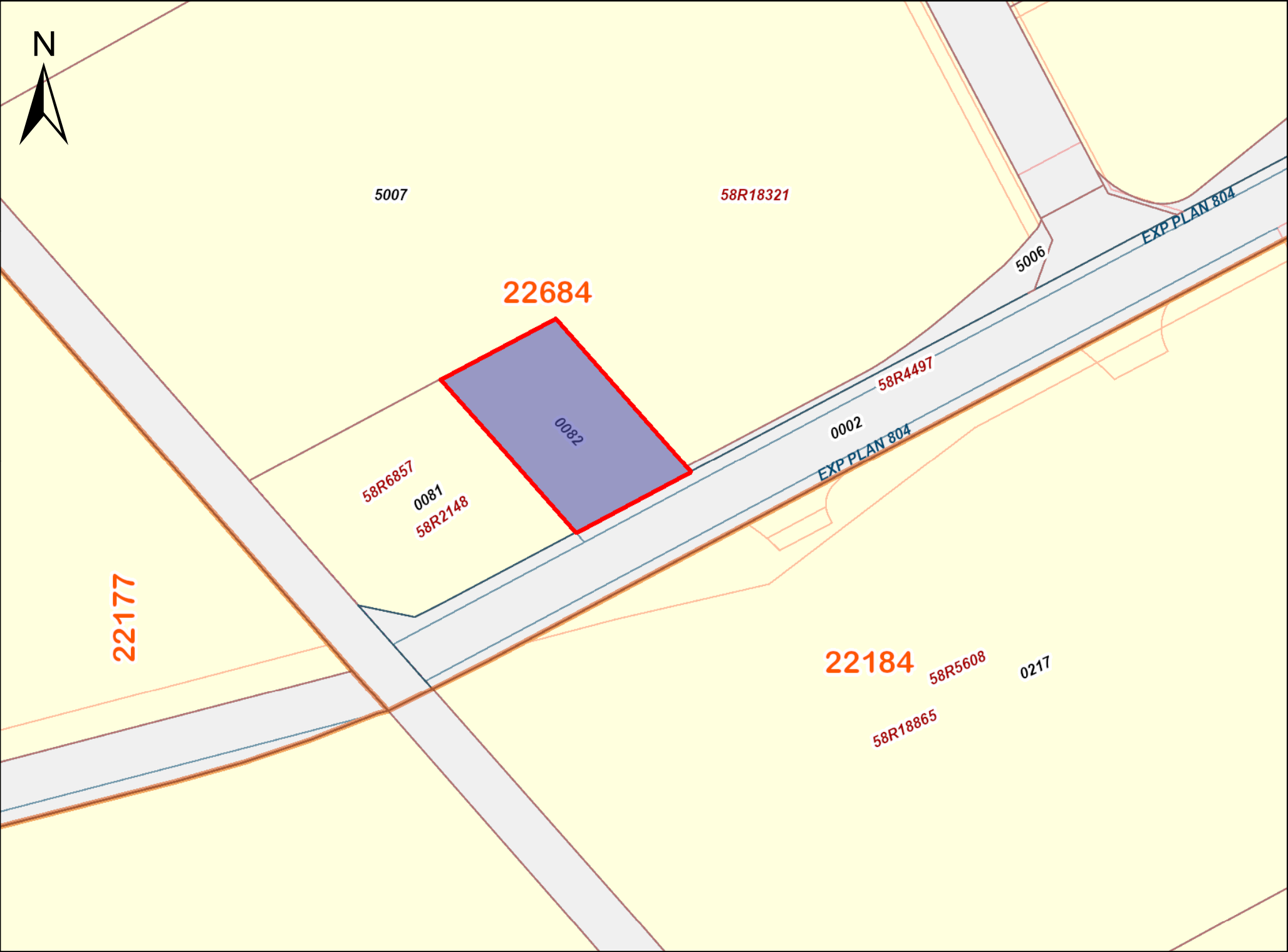
OWNERS' NAMES
THE CORPORATION OF THE CITY OF WATERLOO

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **						
**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:						
** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *						
** AND ESCHEATS OR FORFEITURE TO THE CROWN.						
** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF						
** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY						
** CONVENTION.						
** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.						
**DATE OF CONVERSION TO LAND TITLES: 2003/05/26 **						
58R6857	1989/09/08	PLAN REFERENCE				C
1017416	1989/11/17	TRANSFER	\$212,000		THE CORPORATION OF THE CITY OF WATERLOO	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

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PROPERTY INDEX MAP
WATERLOO(No. 58)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

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REGISTRATION SYSTEM AND HAS BEEN PREPARED
FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE
RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT
REFERENCE PLANS ARE NOT ILLUSTRATED



PROPERTY DESCRIPTION: PT LT 41 GERMAN COMPANY TRACT CITY OF WATERLOO PTS 10, 11, 58R6857, SAVE & EXCEPT PTS 8, 9, 10, 11, 12 & 29 ON 58R-18321; CITY OF WATERLOO

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:

DIVISION FROM 22684-0077

PIN CREATION DATE:

2014/10/17

OWNERS' NAMES

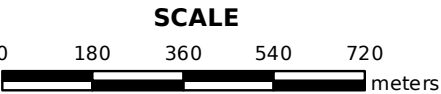
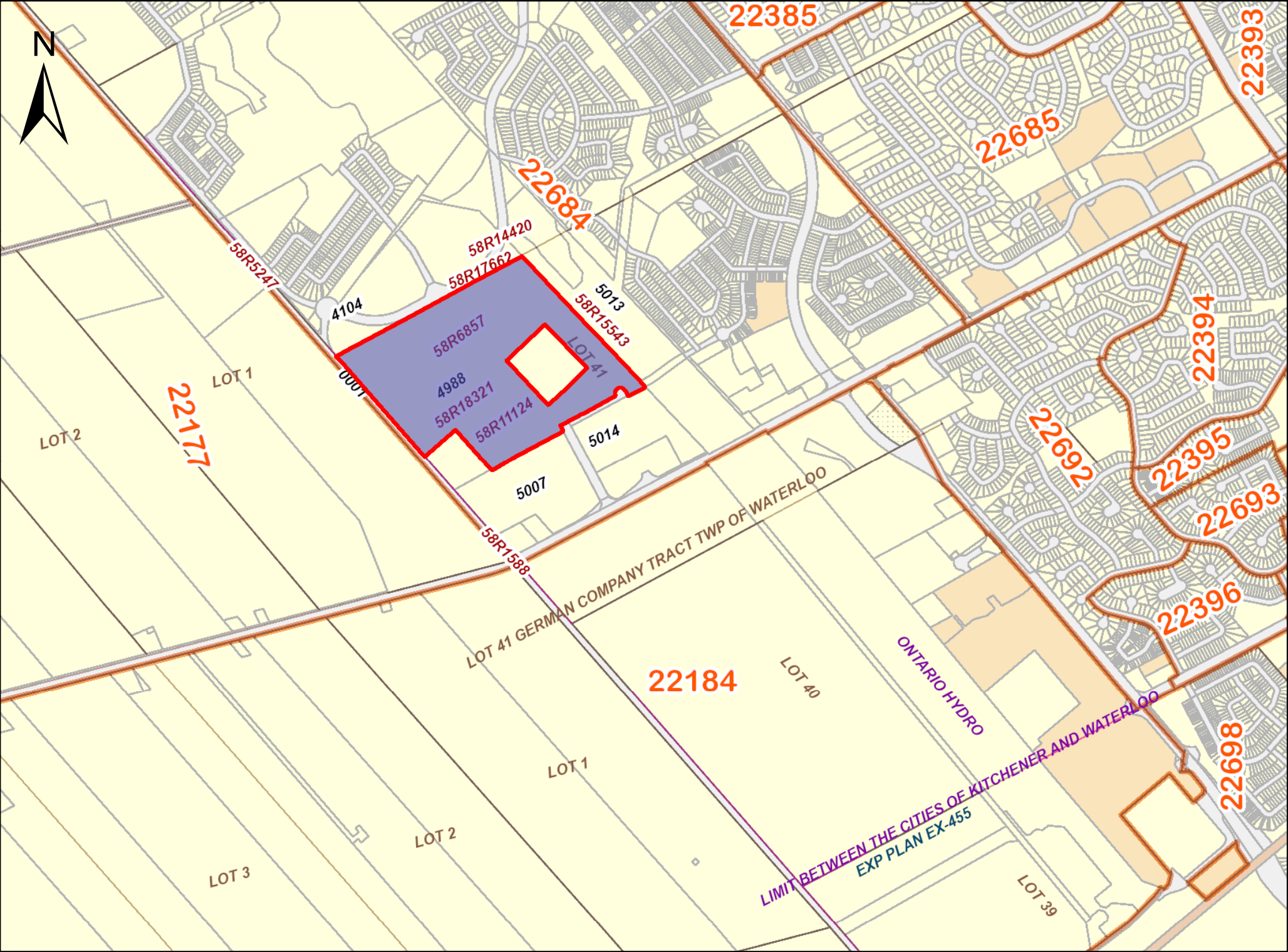
THE CORPORATION OF THE CITY OF WATERLOO

CAPACITY SHARE

ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES (DELETED INSTRUMENTS NOT INCLUDED) **						
**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:						
** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *						
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** CONVENTION.						
** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.						
**DATE OF CONVERSION TO LAND TITLES: 2003/05/26 **						
58R6857	1989/09/08	PLAN REFERENCE				C
1008094	1989/09/11	TRANSFER	\$1,275,900		THE CORPORATION OF THE CITY OF WATERLOO	C
1253932	1995/05/12	LEASE			GREENBORO LAWN CARE INC. WATERLOO GOLF ACADEMY	C
REMARKS: SKETCH ATTACHED.						
58R11124	1998/01/23	PLAN REFERENCE				C
WR640240	2011/09/08	TRANSFER REL&ABAND	\$2	ERBSVILLE ROAD DEVELOPMENT INC.	THE CORPORATION OF THE CITY OF WATERLOO	C
REMARKS: 1008094. PARTIAL RELEASE 1008094 - PIN 22684-0077; COMPLETE RELEASE 1008094 PIN 22684-4084/3261;						
58R18321	2014/08/27	PLAN REFERENCE				C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.



PROPERTY INDEX MAP
WATERLOO(No. 58)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE
PROPERTY INFORMATION AS THIS MAP MAY
NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND
DOCUMENTS RECORDED IN THE LAND
REGISTRATION SYSTEM AND HAS BEEN PREPARED
FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE
RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT
REFERENCE PLANS ARE NOT ILLUSTRATED





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:

980 Erb St W, Region of Waterloo, Waterloo

Project No:

20170120105

Opta Order ID:

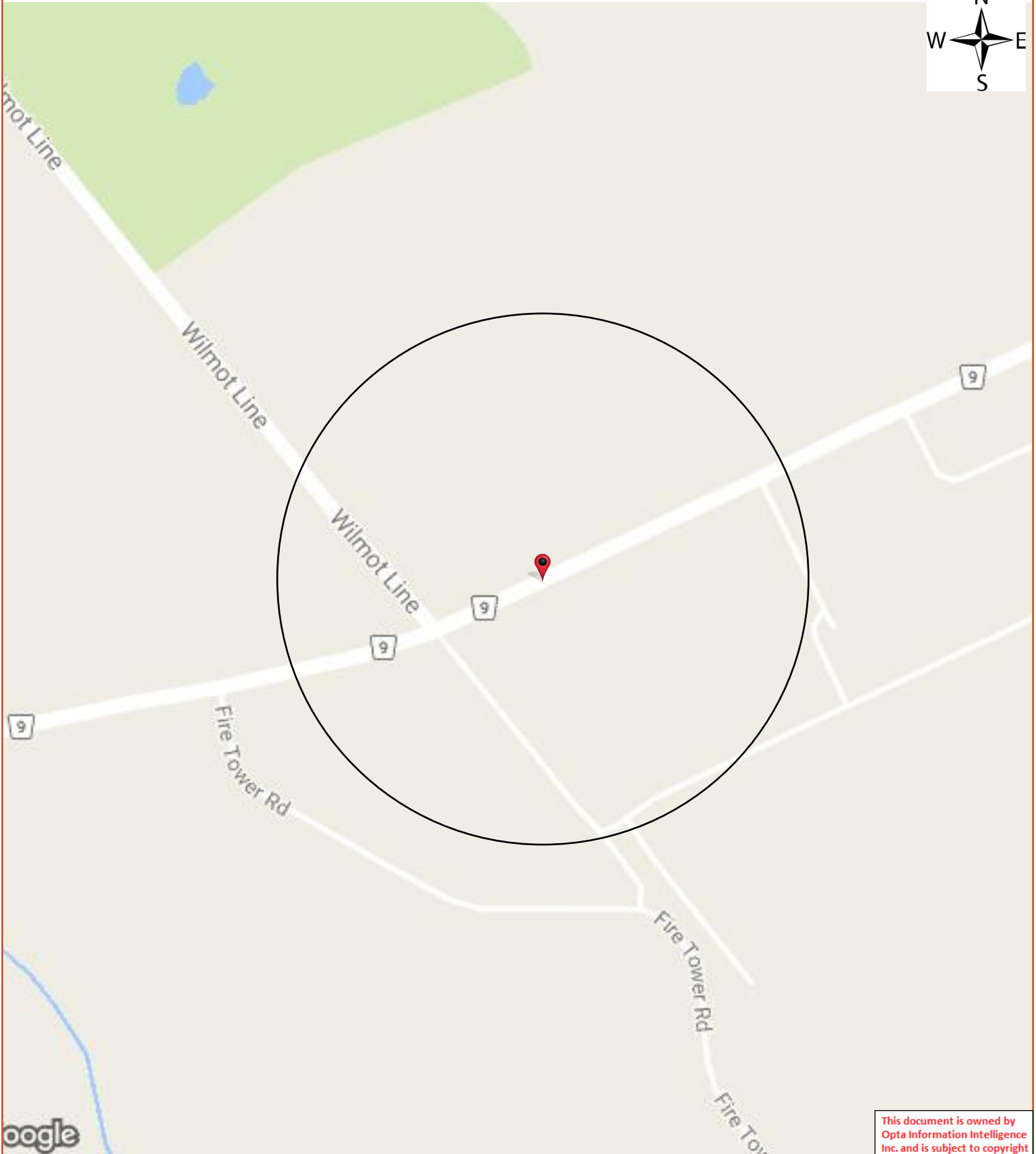
32444

Requested by:

Eleanor Goolab
Ecolog ERIS

Date Completed:

3/10/2017 3:38:45 PM



Opta Historical Environmental Services EnviroscanTM Terms and Conditions

Report

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

Disclaimer

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

Entire Agreement

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

Governing Document

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

Law

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

From: Pawlick, Travis
To: ["publicinformationsservices@tssa.org"](mailto:publicinformationsservices@tssa.org)
Cc: ["plal@tssa.org"](mailto:plal@tssa.org)
Subject: Information Request - 161413446
Date: Monday, April 10, 2017 9:15:00 AM
Attachments: [TSSA search 161413446.pdf](#)

Hi,

I would like to make a request for a records search for the following properties:

- 100 Wilmot Line, Waterloo, Ontario
- 930 Erb Street West, Waterloo, Ontario
- 980 Erb Street, West, Waterloo, Ontario

Please advise if there are any registrations on, or in proximity to the listed subject property and also, please advise of any other environmental information that may be of consequence to this inquiry. Attached is a credit card payment form for the Technical Standards & Safety Authority in the amount of \$50 plus HST (\$56.50) as an application fee for your search in relation for each of the subject properties for a total of \$169.50

Our project number is 161413446, please provide an electronic copy of the receipt for billing purposes.

We appreciate your assistance in collecting this information. Should you have any questions or require additional information, please do not hesitate to contact me.

Thank you,

Travis Pawlick, B.Sc.

Environmental Scientist
Stantec
100-300 Hagey Boulevard Waterloo ON N2L 0A4
Phone: (519) 579-4410 ext 7468
Cell: (226) 808-7913
Fax: (519) 579-6733
Travis.Pawlick@stantec.com

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

 Please consider the environment before printing this email.

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of 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 et de
l'Action en matière de changement
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Bureau de l'accès à l'information et
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12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télééc.: (416) 314-4285



April 18, 2017

Travis Pawlick
Stantec
100-300 Hagey Blvd.
Waterloo, ON N2L 0A4



Dear Travis Pawlick:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-02473, Your Reference 161413446

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 980 Erb St W, Waterloo.

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 Kaitlynn Low at kaitlynn.low@ontario.ca.

Yours truly,



Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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

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Téléc.: (416) 314-4285



April 10, 2017

Travis Pawlick
Stantec
100-300 Hagey Blvd.
Waterloo, ON N2L 0A4

Dear Travis Pawlick:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-02473, Your Reference 161413446

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

The search is being conducted on the following: 980 Erb St W, Waterloo. If there is any discrepancy please contact us immediately.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search, copying and preparation time.

If you have any questions regarding this matter, please contact Jeneska Abano at jeneska.abano@ontario.ca.

Yours truly,

foe 
Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
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40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télec.: (416) 314-4285



April 10, 2017

Travis Pawlick
Stantec
100-300 Hagey Blvd.
Waterloo, ON N2L 0A4

Dear Travis Pawlick:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2017-02472, Your Reference 161413446

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

The search is being conducted on the following: 930 Erb St W, Waterloo. If there is any discrepancy please contact us immediately.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search, copying and preparation time.

If you have any questions regarding this matter, please contact Jenessa Abano at jenessa.abano@ontario.ca.

Yours truly,


Janet Dadufalza
FOI Manager

Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
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40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Téléc.: (416) 314-4285



April 19, 2017

Travis Pawlick
Stantec
100-300 Hagey Blvd.
Waterloo, ON N2L 0A4



Dear Travis Pawlick:

RE: *Freedom of Information and Protection of Privacy Act Request*
Our File #: A-2017-02472, Your Reference #: 161413446

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 930 Erb St W, Waterloo.

After a thorough search of the Ministry's Guelph District Office, West Central Region, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide full access to the attached information.

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

• Search Time 1 hour @ \$30/hour	\$30.00
• Copying 2 pages @ \$0.20/page	0.40
• Delivery	3.00
• Total	\$33.40
• Deposit Received	- 30.00
• BALANCE WAIVED (NOT REQUIRED)	\$ 3.40

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 Sharon Menzies at (416) 327-1429 or Sharon.Menzies@ontario.ca.

Yours truly,


Janet Dadufalza
FOI Manager

Attachments



Search

Go

Generator Details

Registration / Notification Number

ON4739622

Legal Company Name

Primary Name: Rice Commercial Group Limited

Division Name: NA

Company Operating Name

Primary Name: Rice Commercial Group Limited

Division Name: NA

Mailing Address

Division Building: NA

Post Box Number: 215

Address Line 1: 15 Gormley Industrial Avenue, Unit 3

Address Line 2: NA

Town/City: Gormley

Postal Code / Zip Code: L0H 1G0

County: (if inside Ontario) YORK (R. M.)

Province/State (if inside Canada/US) ONTARIO

County: (if outside Ontario) NA

Province / State (if outside Canada / US) NA

Country: Canada

Province / State (if outside Canada / US) NA

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building: NA

Post Box Number: NA

Address Line 1: 930 Erb Street

Post Box Number: NA

Address Line 2: NA

Post Box Number: NA

Town/City: Waterloo

Postal Code / Zip Code: N2J 3Z4

County: (if inside Ontario) WATERLOO (R. M.)

Province / State (if inside Canada / US) ONTARIO

County: (if outside Ontario) NA

Province / State (if outside Canada / US) NA

Country: Canada

Province / State (if outside Canada / US) NA



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Search

Company Name: Rice Commercial Group Limited
Company Number: ON4739622 (Generator)

Active Waste Classes

Active Waste Class Listing
[Add New Waste Class](#) [Inactive waste classes](#)

Active On-site Waste Classes

Waste Class	View Details	Hazardous Waste Number (per waste stream)	Reg. 347 Schedules	Disposal Method	Part 2B required	Part 2B complete	Physical State	Off-Site Status
251 - L	View Details	N/A					Liquid	Active Site

Ministry of the Environment
and Climate Change

Freedom of Information and
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12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
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Fax: (416) 314-4285

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40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél.: (416) 314-4075
Télééc.: (416) 314-4285



April 10, 2017

Travis Pawlick
Stantec
100-300 Hagey Blvd.
Waterloo, ON N2L 0A4

Dear Travis Pawlick:

RE: **Freedom of Information and Protection of Privacy Act Request**
Our File # A-2017-02471, Your Reference 161413446

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

The search is being conducted on the following: 100 Wilmot Line, Waterloo. If there is any discrepancy please contact us immediately.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search, copying and preparation time.

If you have any questions regarding this matter, please contact Jeneska Abano at jeneska.abano@ontario.ca.

Yours truly,

for 
Janet Dadufalza
FOI Manager

MOE-INFO P
40 ST. CLA.
TORONTO
20164541
GH2016454151

**** PURCHASE ****
04-11-2017 10:05:23
Acct # *****5329 M
Exp Date **/** Card Type MC
Name:

Trace # 79
Inv. # 1724712473
Auth # 057067 RRN 001004582

Total \$105.00
(001) APPROVED-THANK YOU

Retain this copy for your
records
Customer copy



Ministry of the Environment
and Climate Change

Freedom of Information and
Protection of Privacy Office

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

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12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télec.: (416) 314-4285



April 27, 2017

Travis Pawlick
Stantec
100-300 Hagey Blvd.
Waterloo, ON N2L 0A4



Dear Travis Pawlick:

RE: *Freedom of Information and Protection of Privacy Act Request*
Our File #: A-2017-02471, Your Reference #: 161413446

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 100 Wilmot Line, Waterloo.

After a thorough search of the Ministry's West Central Regional Office, Guelph District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide partial access to the attached information as the identity of complainants and other personal information have been removed to protect privacy (Section 21(1)(f) of the Act).

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

• Search Time 1 hour @ \$30/hour	\$ 30.00
• Copying 46 pages @ \$0.20/page	\$ 9.20
• Delivery	\$ 3.00
• Total	\$ 42.20
• Deposit Received	- \$ 30.00
• BALANCE WAIVED (NOT REQUIRED)	\$ 12.20

The District Office has advised that there may be inactive records in the Records Centre, Mississauga. To retrieve these files there is a charge of \$60.00 with no guarantee that any records will be located responsive to your request. If you would like us to retrieve these files, please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$60.00. Credit card forms are available on the Ministry's website <http://www.ontario.ca/environment-and-energy/freedom-information-request-form-credit-card-form>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the files retrieved from the Records Centre, the time for answering your request will be extended for an additional 30 days.

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 Michael Kolaric at 416-327-3036.

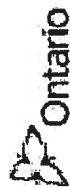
Yours truly,

Susan Brayley

for

Janet Dadufalza
FOI Manager

Attachments



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Generator Details

Registration/Notification Number

ONS962225

Legal Company Name

Primary Name:

GolfNorth Management Corp.

Waterloo Golf Academy

Company Operating Name

Primary Name:

Waterloo Golf Academy

NA

Mailing Address

Division Building:

GolfNorth Properties

Post Box Number:

NA

Address Line 1:

400 Golf Course Road

Address Line 2:

NA

Town/City:

Conestogo

Postal Code / Zip Code:

N0B 2K0

County: (if inside Ontario)

WATERLOO (R. M.)

Province/State (If inside Canada/US)

ONTARIO

County: (if outside Ontario)

NA

Province / State (If outside Canada / US)

NA

Country:

Canada

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building:

Waterloo Golf Academy

Post Box Number:

NA

Address Line 1:

100 Wilmet Line

Address Line 2:

RR STN 3 Waterloo

Town/City:

Waterloo

Postal Code / Zip Code:

N2J 3Z4

County: (if inside Ontario)

WATERLOO (R. M.)

Province / State (if inside Canada / US)

ONTARIO

County: (if outside Ontario)

NA

Province / State (If outside Canada / US)

NA

Country:

Canada

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**hwin**
Administration

Company Name: **GolNorth Management Corp. Waterloo Golf Academy**
Company Number: **ON5962225 (Generator)**

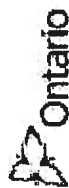
Active Waste Classes

Active Waste Class Listing
[Add New Waste Class](#) [Inactive waste classes](#)

Active Off-site Waste Classes

Waste Class	View	Hazardous	Reg. 347	Disposal Method	Part 2B	Physical	Off-Status	UnRegister
	Details	Waste Number	Schedules	required	complete	State	Site	Waste Class
252 - L	View Details	N/A					☐ Liquid	☐ Off-Site ☐ Active

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Generator Details

Registration/Notification Number

ONS993979

Legal Company Name

Primary Name: Waterloo Golf Academy

Division Name: NA

Company Operating Name

Primary Name: Waterloo Golf Academy

Division Name: NA

Mailing Address

Division Building: NA

Post Box Number: NA

Address Line 1: 100 Wilnot Line

Address Line 2: NA

Town/City: Waterloo

Postal Code / Zip Code: N2J 3Z4

County: (if inside Ontario) WATERLOO (R. M.)

Province/State (If inside Canada/US) ONTARIO

County: (if outside Ontario) NA

Province / State (If outside Canada / US) NA

Country: Canada

Canada

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building: NA

Post Box Number: NA

Address Line 1: 100 Wilnot Line

Postal Code / Zip Code: N2J 3Z4

Address Line 2: NA

Town/City: Waterloo

County: (if inside Ontario) WATERLOO (R. M.)

Province / State (If inside Canada / US) ONTARIO

County: (if outside Ontario) NA

Province / State (If outside Canada / US) NA

Canada

Country:



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Company Name: Waterloo Golf Academy
 Company Number: ON5993979 (Generator)

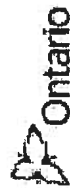
Active Waste Classes

Active Waste Class Listing
[Add New Waste Class](#) [Inactive waste classes](#)

Active On-site Waste Classes

Waste Class	View Details	Hazardous Waste Number (per waste stream)	Reg. 347 Schedules	Disposal Method	Part 2B required	Part 2B complete	Physical State	Off-Site Status
213 - I	View Details	D001	5, 13	Small Quantity Generator Exemption	N		Liquid	Off-Site Active
252 - L	View Details	N/A					Liquid	Off-Site Active

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Administration

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Company Name: Waterloo Golf Academy
Company Number: ON5993979 (Generator)

Inactive Waste Classes

Inactive Waste Class Listing

[Add New Waste Class](#) | [Active waste classes](#)

Inactive On-site Waste Classes

Waste Class	Physical State	On-Site	Status	Activate
252 - L	Liquid	On-site Disposal	Inactive	☐ View Details

Inactive Off-site Waste Classes

Waste Class	Physical State	Off-Site	Status	Activate
213 - B	Liquid	Off-Site	Inactive	☐ View Details



This site maintained by
the Government of Ontario

Technical Inquires to [Webmaster](#).
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OCCURENCE REPORT

Ministry of the
Environment

Location of Occurrence: WATERLOO CITY		Source: WATERLOO GOLF ACADEMY 100 WILMONT RD Sector: Source: SIC: UTM: N: [4814000] E: [537000] Zone: [17]	
Reg: 2 Dist: GU Municipality: 25103			
Entered: 1995/07/21 10:52	ORIS No. 9520002159	Abstracts: 0	Diarles: 1
Received By: CAMBRIDGE DISTRICT		Batch: 1767	I. E. B. No.
Occurrence Type: C	Subtype: 05	Occurrence Date:	
Work Plan:	17	Occurrence Time:	
Reported By: ANONYMOUS		Report to MOE: 1995/07/20 10:15 MOE at Scene:	
Telephone No. 000-000-0000 x	Alternate No. x	Assigned To:	RON MCKNIGHT
Address:		ERP Contacted: Callout: ☐ NSP: ☐ ERP Name:	
Postal Code:			
Syn: BURNING WASTE (907)			
Brief Summary: BURNING EVERYTHING - AEROSOL CANS, PLASTIC, CARPET ETC. BURNING FOR LAST COUPLE OF HRS. * COMPLAINT REFERRED TO CITY WATERLOO FIRE DEPT.			
If there are related reports, record initial/master ORIS No. here >>			
Followup Action: Abatement IEB Other BF Date:			
File Closed: X Abatement: IEB Other Suspected Violation:			
Report Prepared By: RON MCKNIGHT	Date: 20/07/95	IEB Investigator:	IEB BF Date
Approving Officer LARRY MACDONNELL	Date: 02/08/95	Reviewing Officer:	Date
Specify number(s) for routing Original [] [] [] [] []		Continued [] Yes	
Specify number(s) for copy distribution [] [] [] [] []			
1. Investigator/E.O.	2. D. O. /File	3. SAC (Initial spills)	
4. Reg. Dir. / _____ Mgr.	5. IEB Reg. Spv	6. IEB H.O./file	7. Other _____
SAC Action Class: 1: 2:			

Material 1:	Code :
Amount :	UN No.:
Material 2:	Code :
Amount :	UN No.:
Material 3:	Code :
Amount :	UN No.:
Cause.....:	Code. . :

Reason :		Code . . :
Person In Control:		Waste GenNum :
Owner :		Waste GenNum :
Agencies Involved :		
Clean up and Restoration Carried out by:		
☒ [v] Controller ☒ [v] Owner ☐ [N] Other		
% Cleaned up:		Estimated Cost:
Were Directions or Approval Given Under		
EPA Part X ☒ [v]	Regulation 362 ☒ [v]	Manifest No.
Waste Class :		Code . . :
Hauler :		Code . . :
Disposal Site :		Code . . :
Environmental Impact:	Nature of Impact:	Code . . :
People/Business Damaged		
(Other than to Owner/Controller) :		
Nature of Damage:		Code . . :



Ministry
of the
Environment

Ministère
de
l'Environnement

CS217-DUMMOND

OCT 15 1999 AM 10:36 RCUT

Generator Registration Report Rapport d'inscription du producteur

Please mail completed form to:

Environmental Monitoring & Reporting Branch, Ministry of the Environment, 135 St. Clair Avenue West, AREA "M"
Toronto, Ontario M4V 1P5

Veillez faire parvenir le formulaire dûment rempli à l'adresse suivante :

Direction de la surveillance environnementale, ministère de l'Environnement, 135, avenue St. Clair ouest, SECTEUR M
Toronto ON M4V 1P5

Part I - Generator Identification / Partie I - Identification du producteur

This report is / Le présent rapport constitue :

1. ☐ an initial generator registration report /
un premier rapport d'inscription du producteur

or / ou

2. ☐ a revision - enter Ontario Generator Registration No.
une révision - veuillez donner le numéro d'inscription du producteur (Ontario)

3. For generators located outside of Ontario, enter Registration/Notification number assigned by your local environmental authority. / Si vous êtes un producteur de l'extérieur de l'Ontario, veuillez inscrire le numéro d'inscription/d'identification attribué par les autorités locales en matière d'environnement.

Generator Registration Number
N° d'inscription du producteur

Name of Generator (Enter the corporate name or, if a partnership or proprietorship, the name of the principal(s). If the generator intends to carry on business under a separate name or style, this should also be entered.) / Nom du producteur (Veuillez inscrire la dénomination sociale ou, s'il s'agit d'une société en nom collectif ou d'une société à propriétaire unique, le nom du (des) principal (principaux) propriétaire(s). Si le producteur envisage d'exploiter une entreprise sous une dénomination ou un nom distinct, veuillez également le noter.)

4. Name / Nom

WATERLOO GOLF ACADEMY

5. Address / Adresse

100 WILMOT LINE

6. Municipality / Municipalité

WATERLOO

Province/State
Province/État

ONT

Postal Code / Code postal

N2J 3Z4

7. Site location / Emplacement des installations

LOT 41 GCT CITY OF WATERLOO

8. Municipality / Municipalité

WATERLOO

Province/State
Province/État

Postal Code / Code postal

9. Name of contact / Nom de la personne à contacter

DOUG BLACK

Tel. No. / N° de tél.

10. Standard Industrial Classification Codes (SIC) for Site noted in Section 7. / Codes de la classification type des industries pour les installations dont l'adresse figure au n° 7

252

11. Total number of wastes to be registered with this report /
Nombre total de déchets à inscrire dans ce rapport

1

12. Name of Company Official / Nom du représentant autorisé de la compagnie

DOUG BLACK

13. Position / Poste

owner

14. Signature / Signature

Doug Black

15. Date / Date

Sept 20/99

16. Ministry Use Only /
Réservé au Ministère

County Code / Code de comté

Regional/District Code / Code de région/district

Municipal Code / Code de municipalité

Enter City Tie Line / Ligne privée téléphonique

000008

Part 2 - Waste Identification / Partie 2 - Nature des déchets

Complete one Page 2 for each waste stream to be registered / (Veuillez photocopier cette page et en remplir une pour chaque flux de déchets à inscrire.)

1. Description of Waste / Description des déchets

used crankcase oil

2. Description of generating process / Description du procédé de production

small engines
tractor

3. Waste quantity generated or accumulated / Quantité de déchets produite ou accumulée

7.5 kg/mo. / kg/mois

7.5 litres
month

360
730

4. Primary characteristic / Caractéristique principale

oil

Analytical data (if applicable). If the data has been estimated, attach separate sheet outlining the basis for the estimate. / Données analytiques (le cas échéant). Si les données sont estimatives, veuillez annexer une feuille à part pour décrire sur quoi reposent les estimations.

Name of Laboratory (if applicable) / Laboratoire (le cas échéant)

Waste Class
Catégorie de déchets

Hazardous Waste Number
Numéro de déchets dangereux

Specific Gravity
Masse volumique

Physical State
(Solid - S, Liquid - L, Gas - G)
État
(solide - S, liquide - L, gaz - G)

For Ministry Use only / Réservé au Ministère

5. Secondary Characteristic / Caractéristique secondaire

Analytical data (if applicable) / Données analytiques (le cas échéant)

Part 3 - Waste Management / Partie 3 - Gestion des déchets

1. Principal Intended Receiver / Réceptonnaire principal prévu

Company name and address / Nom et adresse de la compagnie

QUANTEX TECHNOLOGIES

Receiver No. / N° du réceptonnaire

A650133

Municipality
Municipalité

WATERLOO

Province/State
Province/État

ONT

Postal Code
Code postal

N2E3E1

2. Principal Intended Carrier / Transporteur principal prévu

Company name and address / Nom et adresse de la compagnie

QUANTEX TECHNOLOGIES

MOE Carrier No.
N° du MEO du transporteur

A820133

Municipality
Municipalité

WATERLOO

Province/State
Province/État

ONT

Postal Code
Code postal

N2E3E1

INCIDENT REPORT

Reference Number:	0556-9MBHM2	File Storage Number:	SI WA WA WI 700
Module:	Incident Reporting	Module Type:	Legislation Non-Compliance
Cross Reference:	(doc link)	Task Link:	2864-9MBHTE ☐
Originating Document:		Created by:	James Saunders
Incident Report Reference Number:	0556-9MBHM2 ☐		
Date Created:	2014/07/24	Date Completed:	2015/01/19
Bring Forward Date:		Bring Forward Reason:	
Status:	Closed		
Program	Waste - Hazardous & Liquid Industrial	Activity:	HWIN Generator Exception

Is this an air emission (measured or modelled) or wastewater (sewage) discharge exceedance that will become part of the Environmental Compliance Report?

(legislation, certificate of approval, order, or guideline)

☐ Yes ☒ No ☐ To be determined

[Click here for Guidance](#)

Caller or PO Information

Reported By:		Name of Company:	
First Name	Last Name	Waterloo Golf Academy	
Harry	Baker		
Contact Mailing Address			
Civic Address:			Unit Identifier:
100 Wilmot Line			
Delivery Designator:			Delivery Identifier:
Municipality:	Postal Station:	Province/State:	Postal Code:
Waterloo		Ontario	
Telephone Number:	Extension:	Other Number:	Email Address:
		Fax	

Reported By:	
--------------	--

MOE Information

Date & Time Reported to MOE:	2014/07/24 08:58		
Office Receiving Incident Report:	Guelph District Office		
Incident Info Received By:	James Saunders		
MOE Response:	No Field Response	Site Region:	West Central
Date & Time of MOE Arrival at Scene:			
Master Incident Report Number:			

SAC Action Class:	
Non-Standard Procedure:	No
ERP Call-out Initiated:	

Client(s)

Client Details Waterloo Golf Academy Mailing Address: 100 Wilmot Line, Waterloo, Ontario, Canada, N2J 3Z4 Physical Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, Ontario, Canada Telephone: (519)886-6555 Client #: 0493-9MBHMM, Client Type: Corporation
--

Site(s)

Site Details 100 Wilmot Line Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo District Office: Guelph Site #: 1535-9MBHSD

Incident Information

Incident Summary:	Expired Generator Follow-Up <i>cannot be longer than 60 characters</i>
Incident Description:	Generator ID: ON5993979 Status: Expired (2011) Wastes: 213-I Petroleum Distillates 252-L Waste Oils & Lubricants 07/23/2014: Environmental Assistant James Saunders (JS) spoke to Harry Baker (HB) of Waterloo Golf Academy (WGA) about the HWIN account for 100 Wilmot Line in Waterloo. HB explained that there was 25-30 gallons of oil on site which had been accumulating since the last shipment made from the site (04/09/2014). HB said that the site generates about 8-10 gallons of waste oil per year. JS explained that the maximum storage limit for hazardous waste is 2 years, and that due to this WGA must ship their stored oil on site. JS also explained that the amount they generated allowed them to fit under the small quantity exemption (after the bulk shipment of 30 gallons), in which they would not need to manifest or register on HWIN. JS recommended that HB speak to the hauler he will use about SQE pickups. HB agreed to do so, will confirm via email once the account is renewed. 09/17/14 Project Intern Neje Michiels (NM) noted the account is still expired. NM left a message for HB. 10/01/14: The account is still expired. NM left a message for HB. 10/06/14: It is clear from a series of voicemail messages that the person responsible for this account is Doug Bree (sp?) (DB): [REDACTED] DB thinks that GolfNorth, which recently took over the property, has its own HWIN account for the site, but will confirm. He will make sure this new account exists and then close the old one. 10/23/14: The account is still expired. NM left a message for DB. 12/11/14: The account is still expired. Left another message for DB. I said that the account will have to be referred to an EO soon if it is not taken care of, and requested a call back.

s.21

DB called back. He said he had called HWIN but that they wouldn't give him access to the old account. Doug Black, the admin on the account, no longer works there because the old company is no longer there. In other words, we cannot ask Golf North to close an account they were not responsible for and had no access to. DB will call back and give me the generator ID for the active account for the site under GolfNorth.

Later, DB called back and gave me the Generator ID for the registered account in their name: ON5962225. I verified this.

*****This account needs to be closed by HWIN*****

IR sent to area EO. EO to contact HWIN and notify them of need for closure of account.

Jan 19 2015 DM contacted Eileen Sutherland (HWIN coordinator) via email and apprised her that the company is no longer located at the site and the current company who took over the site are not the administrators of the account and not able to do anything with it. The district requested that the account be deactivated in this respect.

Jan 19 2015 Eileen responded back to email (see attachments) indicating that the account had been deactivated.

No further abatement response.

Links & Comments:	
Attachments Names:	Waterloo Golf Academy RE HWIN account closure - Guelph District office abatement.msg

Date & Time of Incident	Incident Date Confirmation? Estimated 2014/07/23					
Source Type:		Sector Type:				
Nearest Watercourse:		Watershed Category Code:				
Environmental Impact:						
Nature of Impact:						
Incident Event:		Incident Reason:				
Damaged Party:	No					
Contaminants Table						
Contaminant Name	Code	UN#	Limit	Quantity	[units]	[freq]
Controller of Material:			Owner of Material:			
Estimated Clean Up Cost:			Who Cleaned Up:			
% Clean Up:	%		MOE/Other Agencies Involved:			

Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity?	☐ Yes	☒ No	☐ To be determined
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Voluntary / Mandatory Compliance Items

Type Parent RefNo Work Summary (may be truncated)

Date

AttainList

Offence(s)

Suspected Violation(s)/Offence(s):	
Act - Regulation - Section, Description (General Offence)	

Provincial Officer:

Name:

Dana Mohammed

Badge No:

898

Work Unit:

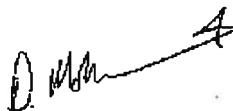
District/Area Office:

Guelph District Office

Date:

2015/01/19

Signature:



Guelph District Manager (A):

Name:

Amy Shaw

Work Unit:

District/Area Office:

Guelph District Office

Date:

2015/01/19

Signature:



INCIDENT REPORT

Reference Number:	8327-7ETNTS	File Storage Number:	SIWAWA WI 540
Module:	Incident Reporting	Module Type:	Legislation Non-Compliance
Cross Reference:	(doc link)	Task Link:	7771-7ETNW8 
Originating Document:		Created by:	Bob Miller
Incident Report Reference Number:	8327-7ETNTS 		
Date Created:	2008/05/20	Date Completed:	2009/02/13
Bring Forward Date:		Bring Forward Reason:	
Status:	Closed		
Program	Water - Ground & Surface	Activity:	Post Inspection - PTTW

Is this an air emission (measured or modelled) or wastewater (sewage) discharge exceedance that will become part of the Environmental Compliance Report?

(legislation, certificate of approval, order, or guideline)

☐ Yes ☒ No ☐ To be determined

[Click here for Guidance](#)

Caller or PO Information

Reported By:		
	First Name Bob	Last Name Miller
Contact Mailing Address		
Municipality:		
Waterloo		

Reported By:	
--------------	--

MOE Information

Date & Time Reported to MOE:	2008/05/12 10:00		
Office Receiving Incident Report:	Guelph District Office		
Incident Info Received By:	Bob Miller		
MOE Response:	Planned Field Response	Site Region:	West Central
Date & Time of MOE Arrival at Scene:	2008/05/12 10:15		
Master Incident Report Number:			
SAC Action Class:			
Non-Standard Procedure:	No		
ERP Call-out Initiated:			

Client(s)**Client Details**

Greenboro Lawn Care Inc., Business/Facility Name: Waterloo Golf Academy
Mailing Address: 100 Wilmot Line, Waterloo, Ontario, Canada, N2T 1A1
Physical Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, Ontario, Canada, N2T 1A1
Telephone: (519)886-6555
Client #: 4000-7ELK86, Client Type: Corporation

Site(s)**Site Details**

Waterloo Golf Academy
Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, N2T 1A1
District Office: Guelph
Site #: 6569-7EMN3Q

Incident Information

Incident Summary:	Permit to Take water inspection <i>cannot be longer than 60 characters</i>
Incident Description:	Permit to Take water inspection No permit to take water has been obtained Bacti sample results for monthly sampling as required by O. Reg 252/05 were not available during the inspection Reg 903, Section 12 requires separation distances of a well from sources of pollution. (copy of MOE Inspection report given to Dino Masiero, Water Section for their information) Written response June 10 Samples taken. Other issues addressed. Will take less than 50,000 L per day and will apply for PTTW No further action required

Links & Comments:	
Attachments Names:	

Date & Time of Incident	Incident Date Confirmation? Actual 2008/05/12		
Source Type:		Sector Type:	
Nearest Watercourse:		Watershed Category Code:	
Environmental Impact:	Possible		
Nature of Impact:			
Incident Cause:		Incident Reason:	
Damaged Party:	No		

Contaminants Table						
Contaminant Name	Code	UN#	Limit	Quantity	[units]	[freq]

Controller of Material:		Owner of Material:	
Estimated Clean Up Cost:		Who Cleaned Up:	
% Clean Up:	%	Agencies Involved:	

Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity?	☒ Yes	☐ No	☐ To be determined
--	--------------------------------------	--------------------------	--

Voluntary / Mandatory Compliance Items

Type	Parent RefNo	Work Summary (may be truncated)	Date	AttainList
VA	8327-7ETNTS	Submit action plan	2008/06/13	2008/06/10

Offence(s)

Suspected Violation(s)/Offence(s):	
Act - Regulation - Section, Description {General Offence}	

Provincial Officer:

Name: Bob Miller
Badge No: 278

Work Unit:

District/Area Office: Guelph District Office
Date: 2008/07/28

Signature:



Area Supervisor:

Name: John Cooke

Work Unit:

District/Area Office: Guelph District Office
Date: 2009/02/13

Signature:

John Radek

INCIDENT REPORT

Reference Number:	8361-7ETLCA	File Storage Number:	SIWAWAWI 102
Module:	Incident Reporting	Module Type:	Legislation Non-Compliance
Cross Reference:	(doc link)	Task Link:	1668-7ETLF6 ☐
Originating Document:		Created by:	Bob Miller
Incident Report Reference Number:	8361-7ETLCA ☐		
Date Created:	2008/05/20	Date Completed:	2009/02/13
Bring Forward Date:		Bring Forward Reason:	
Status:	Closed		
Program	Pesticides	Activity:	Post Inspection - Pest Applicators/Exterminators

Is this an air emission (measured or modelled) or wastewater (sewage) discharge exceedance that will become part of the Environmental Compliance Report?

(legislation, certificate of approval, order, or guideline)

☐ Yes ☒ No ☐ To be determined

[Click here for Guidance](#)

Caller or PO Information

Reported By:			
First Name	Last Name		
Bob	Miller		
Contact Mailing Address			
Municipality:			
Waterloo			

Reported By:	
--------------	--

MOE Information

Date & Time Reported to MOE:	2008/05/12 10:00		
Office Receiving Incident Report:	Guelph District Office		
Incident Info Received By:	Bob Miller		
MOE Response:	Planned Field Response	Site Region:	West Central
Date & Time of MOE Arrival at Scene:	2008/05/12 10:15		
Master Incident Report Number:			
SAC Action Class:			
Non-Standard Procedure:	No		

ERP Call-out Initiated:

Client(s)

Client Details

Greenboro Lawn Care Inc., Business/Facility Name: Waterloo Golf Academy
Mailing Address: 100 Wilmot Line, Waterloo, Ontario, Canada, N2T 1A1
Physical Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, Ontario, Canada, N2T 1A1
Telephone: (519)886-6555
Client #: 4000-7ELK86, Client Type: Corporation

Site(s)

Site Details

Waterloo Golf Academy
Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, N2T 1A1
District Office: Guelph
Site #: 6569-7EMN3Q

Incident Information

Incident Summary:	Pesticide Inspection <i>cannot be longer than 60 characters</i>
Incident Description:	Pesticide Inspection: Check valve to prevent backflow required. Section 23.2.b.ii18.11 of Regulation 347 which requires submit white copy of manifest Section 18.11 of Regulation 347, which requires match Copy 6 to Copy 2 to confirm waste transaction Spill reporting required Spill of diesel requires proper clean-up and disposal of the contaminated soil and verification sampling to confirm clean-up. Written response June 10/08, addresses all items No further action

Links & Comments:	
Attachments Names:	

Date & Time of Incident	Incident Date Confirmation? Actual 2008/05/12		
Source Type:		Sector Type:	
Nearest Watercourse:		Watershed Category Code:	
Environmental Impact:	Possible		
Nature of Impact:			
Incident Cause:		Incident Reason:	
Damaged Party:	No		

Contaminants Table							
Contaminant Name	Code	UN#	Limit	Quantity	[units]	[freq]	

Controller of Material:		Owner of Material:	
Estimated Clean Up Cost:		Who Cleaned Up:	
% Clean Up:	%	Agencies Involved:	

Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity?	☒ Yes	☐ No	☐ To be determined
--	--------------------------------------	--------------------------	--

Voluntary / Mandatory Compliance Items

Type	Parent RefNo	Work Summary (may be truncated)	Date	AttainList
VA	8361-7ETLCA	Submit Action Plan	2008/06/13	2008/06/10

Offence(s)

Suspected Violation(s)/Offence(s):	
Act - Regulation - Section, Description (General Offence)	

Provincial Officer:

Name: Bob Miller
Badge No: 278

Work Unit:
District/Area Office: Guelph District Office
Date: 2008/07/28

Signature:



Area Supervisor:

Name: John Cooke

Work Unit:
District/Area Office: Guelph District Office
Date: 2009/02/13

Signature:

John Rader.

**Ministry of the Environment and
Climate Change**

West-Central Region
Guelph District Office
4th Floor
1 Stone Rd W
Guelph ON N1G 4Y2
Fax: (519) 826-4286
Tel: (519)826-4255

**Ministère de l'Environnement et de
l'Action en matière de changement
climatique**

Direction régionale du Centre-Ouest
Bureau du district de Hamilton
4e étage
1 Stone Rd O
Guelph ON N1G 4Y2
Télécopieur: (519) 826-4286
Tél:(519)826-4255



October 31, 2016

Golf North Properties Inc.
400 Golf Course Rd
Conestogo, Ontario, N0B 1N0
Canada

Attention: Mr. Mike Turner

Dear Mr. Turner

RE: Waterloo Golf Academy Permit to take Water
Reference Number 7323-A98NBC

Please find attached the 2016/2017 Permit to take Water inspection report for the Waterloo Golf Academy. We would like to extend our thanks to the staff at Waterloo Golf Academy for their assistance with the inspection.

Please direct your attention to the action items listed in section 5.0 of the inspection reports as there are compliance dates contained therein.

Should you have any questions or comments, please feel free to contact me directly at the Guelph District Office at (519) 826-4789.

Yours truly,

Dana Mohammed
Senior Environmental Officer
Guelph District Office

File Storage Number: WA WI WI 220

Robinson, Esther (MOECC)

From: Sutherland, Eileen (MOECC)
Sent: January-19-15 11:22 AM
To: Mohammed, Dana (MOECC)
Subject: RE: HWIN account closure - Guelph District office abatement

Hi Dana,

I've gone ahead and deactivated this registration based on the District's request.

Thanks,

Eileen Sutherland
HWIN Coordinator
Environmental Sciences and Standards Division
Ministry of Environment and Climate Change
(p) 416.235.6840

From: Mohammed, Dana (MOECC)
Sent: January-19-15 11:07 AM
To: Sutherland, Eileen (MOECC)
Subject: HWIN account closure - Guelph District office abatement

Hi Eileen,

The district has made inquiries into the status of the HWIN account for Waterloo Golf Academy ON5993979 which expired in 2011. The company is no longer located at the site and the current occupants of the site who took over are not able to access the HWIN account as they are not the administrator of the account as they are a separate company.

Therefore the district office requests that you deactivate the HWIN account in this respect.

Please feel free to contact me should you have any comments or concerns.

Dana Mohammed

Senior Environmental Officer
Ministry of the Environment and Climate Change
Guelph District Office
Phone: 519.826.4789
Fax: 519.826.4286



Permit To Take Water Inspection Report

Client:	Greenboro Lawn Care Inc., Business/Facility Name: Waterloo Golf Academy Mailing Address: 100 Wilmot Line, Waterloo, Ontario, Canada, N2T 1A1 Physical Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, Ontario, Canada, N2T 1A1 Telephone: (519)886-6555 Client #: 4000-7ELK86, Client Type: Corporation		
Inspection Site Address:	Waterloo Golf Academy Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, N2T 1A1 District Office: Guelph GeoReference: .		
Contact Name:	Doug Black	Title:	Owner
Contact Telephone:	(519)886-6555 ext	Contact Fax:	
Last Inspection Date:	1999/09/16		
Inspection Start Date:	2008/05/12	Inspection Finish Date:	2008/05/12
Region:	West Central		

1.0 INTRODUCTION

The purpose of this inspection was to assess for compliance with a water taking permit, which is required under Section 34 of the Ontario Water Resources Act. The inspection included a field visit to Waterloo Golf Academy, and a meeting with Jordan K. Lucas, the golf course greenskeeper and a telephone discussion and meeting with Doug Black, one of the owners.

In parallel to this Permit to Take Water inspection, a pesticide inspection was completed, for which a separate inspection report will be issued.

Other environmental issues were briefly reviewed during the inspections relating to subject wastes, chemical and fuel storage, wells etc and are included in the two inspection reports.

2.0 INSPECTION OBSERVATIONS

Permit Number:
0

2.1 PURPOSE OF TAKING:

Irrigation

Additional Comments:

Water taking permit has not been issued.

2.2 SYSTEM DESCRIPTION:

Surface water source: Yes

Ground water source: Yes

The water taking is for the purpose of irrigating Waterloo Golf Academy, a nine hole golf course.

Well water is pumped from a 528 foot irrigation well, usually 1 hour per day and up to 2 hours per day, at a rated capacity of 160 gal/min, into an irrigation pond, which is adjacent to a pumphouse. The irrigation pond also receives stormwater from a series of ponds with natural filters on the golf course.

As shown in the attached pictures, in the pumphouse there are two 25 hp pumps (previously said to be 20 hp) rated at 350 gal/min, which pump water from an adjacent wet well and irrigate the golf course using 5 irrigation stations and rain-bird eagle irrigation heads. It was indicated that each irrigation station is operated 7 to 20 minutes a day. Tees, greens and fairways are irrigated for about 1 to 2 hours per day.

2.3 QUANTITY ASSESSMENT:

The well pumping rate calculates to be about 9600 gallon to 19200 gallon per day.

The irrigation information calculates to be about 12,250 gallons (350 gal/min*5 stations*7 minutes) to 35,000 gallon (350 gal/min*5 stations*20 minutes) per day.

Based on irrigating 1 to 2 hours per day, this calculates to 21,000 gallons to 42,000 gallons per day.

It was verbally indicated subsequent to the inspection that Waterloo Golf Academy are taking water at less than the rate for which a permit is required, which is currently 50,000 L per day, however on a few days the water taking from the well is above the level for which a permit is required.

The calculations made for irrigation rates based on the information provided during the inspection calculate to above the rate for which a permit is required.

2.4 ASSESSMENT OF OTHER PERMIT CONDITIONS:

No permit has been issued.

There is not a flow meter on the irrigation system. Section 9(2) of Reg 387/04 requires that for water taking, the data collected shall be measured by a flow meter or calculated using a method acceptable to a Director.

The water taking records for 2007 are shown in the attached photographs, and includes only the times for the well pump, which is recorded on a daily basis. No information is included in the records provided as to the actual amount of irrigation water applied to the golf course.

2.5 ASSESSMENT OF REGULATION 387/04:

No water transfers outside the basin.

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

On September 16, 1999, a MOE Permit to Take Water inspection was completed and the hand written report indicates that a Permit to Take Water had not been obtained and the required action is that a Permit be obtained. The covering letter dated September 17, 1999 with the inspection report indicates that failure to obtain a Permit to Take Water is a violation and immediate steps are required for compliance.

During a meeting with Doug Black subsequent to the inspection various documents were reviewed including:

Application for Permit to Take Water dated April 10, 1994

1994 MOE response from Tesfaye Gebrezghi that MOE needs additional information

MOE PTTW Inspection date Sept 17, 1999

Letter from Doug Black to M. Spenser dated Sept 21, 1999, responding to Nov 2, 1994 MOE letter.

No documentation was found that a Permit to Take Water has ever been issued, however in the archives a Certificate of Approval (Private Sewage) Number 3-1437-94-006 was found for the stormwater management facilities that were installed.

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate ?

No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

No

Specifics:

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?

Yes

Specifics:

No permit to take water has been obtained

Bacteriological sample results for monthly sampling as required by O. Reg 252/05 were not available during the inspection

Reg 903, Section 12 requires separation distances of a well from sources of pollution.

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?

No

Specifics:

Was there any indication of minor administrative non-compliance?

No

Specifics:

5.0 ACTION(S) REQUIRED

This Inspection Report contains several issues which are underlined in the report, that are violations or areas where best management practices were not in place, which could potentially result in environmental compliance issues.

Submit an Action Plan to the MOE Guelph District Office by June 13, 2008 addressing all underlined issues in this inspection report.

Subsequent to the inspection it was indicated that a consultant will be contracted by May 21, 2008 and it is expected that a proper and complete permit to take water application will

be submitted without delay. Failure to meet timely compliance dates, will result in an Order being issued with mandatory compliance dates.

6.0 OTHER INSPECTION FINDINGS

During the Permit to Take Water inspection the domestic well was also looked at. The domestic well is located close to the clubhouse in an area where the golf carts are parked and the area around the well is not mounded to ensure that surface drainage will not collect in the vicinity of the well. Having a domestic well casing located in a parking lot where gasoline powered carts are parked may not comply with Reg. 903, Section 12 which requires separation distances of the well from sources of pollution. As shown in the attached pictures, the domestic well casing is about 40 cm above grade and it has a proper well cap to provide a seal. Inside the clubhouse, the water system includes two pressure tanks, a water softener, a sediment filter and a UV disinfection system as shown in the attached pictures. It was indicated that Bob Graham, who is a contractor, services the UV filter every two weeks and that he likely takes all required samples. Bacteriological sample results for monthly sampling as required by O. Reg 252/05 were not available during the inspection.

Subsequent to the inspection, a copy of the Engineers Report by Frontline Environment dated Oct 25, 2005 for a Small Non-Municipal Non-Residential Drinking Water facility was produced.

Information to show compliance with O. Reg 252/05 relating to sampling is required to be submitted. Your drinking water facility is under the jurisdiction of the Safe Drinking Water Branch and D. Masiero, Drinking Water Inspector in the Guelph District Office, should be contacted for any further information on compliance requirements for water related regulations.

7.0 INCIDENT REPORT

8327-7ETNTS ☐

8.0 ATTACHMENTS

PREPARED BY: Environmental Officer:

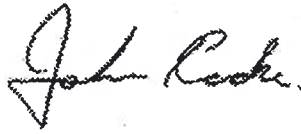
Name:	Bob Miller
District Office:	Guelph District Office
Date:	2008/05/22
Signature	

REVIEWED BY: District Supervisor:

Name:	John Cooke
District Office:	Guelph District Office
Date:	2008/05/29

Permit To Take Water Inspection Report

Signature:

A handwritten signature in black ink, appearing to read "John Cooke". The signature is written in a cursive style with a large initial "J" and a distinct "C" for "Cooke".

File Storage Number:

SIWAWAWI 540

Note:

"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"



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

Permit To Take Water Inspection Report

Client:	Golf North Properties Inc., Business/Facility Name: Head Office Mailing Address: 400 Golf Course Rd, Conestogo, Ontario, Canada, N0B 1N0 Physical Address: 400 Golf Course Rd Conestogo, Woolwich, Township, Regional Municipality of Waterloo, Ontario, Canada, N0B 1N0 Telephone: (888)833-8787, FAX: (519)664-1639 Client #: 1191-84FQ3T, Client Type: Corporation Additional Address Info: Conestogo + + + + Waterloo Golf Academy Mailing Address: 100 Wilmot Line, Waterloo, Ontario, Canada, N2J 3Z4 Physical Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, Ontario, Canada Telephone: (519)886-6555 Client #: 0493-9MBHMM, Client Type: Corporation		
Inspection Site Address:	100 Wilmot Line Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo District Office: Guelph LIO GeoReference: Zone: 17, UTM Easting: 533376 25, UTM Northing: 4810314.0, Latitude: 43.444984, Longitude: -80.58753 Site #: 1535-9MBHSD		
Contact Name:	Mike Turner	Title:	Chief Executive Officer GolfNorth Properties Inc.
Contact Telephone:	(519)634-8468 ext221	Contact Fax:	
Last Inspection Date:			
Inspection Start Date:	2016/10/19	Inspection Finish Date:	2016/10/19
Region:	West Central		

1.0 INTRODUCTION

On October 19, 2016 the undersigned officer of the Ministry of the Environment and Climate Change (ministry) conducted a Permit to Take Water inspection at Waterloo Golf Academy operated by GolfNorth Properties Inc. (GolfNorth) and located at 100 Wilmot Line, City of Waterloo. The inspection was part of the ministry's Guelph District Office pro-active inspection program for 2016/2017.

The purpose of the inspection was to determine Waterloo Golf Academy's compliance with section 34 of the Ontario Water Resources Act. The inspection included a review of ministry files, databases, a review of company records and a site visit. The representative on behalf of the GolfNorth was Jordan Lucas, Course Superintendent of Waterloo Golf Academy.

2.0 INSPECTION OBSERVATIONS

Permit Number:

No permit to take water has been issued to GolfNorth Properties Inc. operating as Waterloo Golf Academy

2.1 PURPOSE OF TAKING

Irrigation
Additional Comments:

Water which is used for irrigation of the golf course at Waterloo Golf Academy is taken from an on-site pond which is supplied by an irrigation well. The water taking at the site had previously been approved by PTTW 8224-7V8PKL which was issued September 09, 2009 (expiry 2019) to Greenboro Lawn Care Inc. Condition 1.4 of the PTTW 8224-7V8PKL reads : *This permit is not transferable to another person* . A valid PTTW has not been issued to the current water taker, GolfNorth Properties Inc.

2.2 SYSTEM DESCRIPTION

Surface water source:

Ground water source: Yes

Irrigation well (Tag # 6508095) is pumped via an electric pump rated at 726 Litres/min controlled through a programmable logic control which is set to be manually controlled . The water is conveyed through piping to the irrigation pond which is connected to the irrigation system for the golf course. The irrigation system utilizes two, 25 hp pumps at a maximum pump rate of 1211 Litres/min which are controlled by a programmable logic control where the flow is measured using a flow meter. During GolfNorth's operation of the Waterloo Golf Academy site they have continued to document daily water takings as required under the original PTTW, these have been recorded by hand and subsequently submitted through the ministry's water taking reporting system.

2.3 QUANTITY ASSESSMENT

GolfNorth maintains an electronic flow meter and PLC controller for the irrigation well and irrigation pond pumps. The records which have been submitted to the ministry of the water takings show them to be below the volumes previously permitted by PTTW 8224-7V8PKL.

2.4 ASSESSMENT OF OTHER PERMIT CONDITIONS

There is no PTTW issued for the watertaking by GolfNorth as such there are no specific terms or conditions of the approval. Under the assumption that PTTW 8224-7V8PKL was applicable to them, GolfNorth has been maintaining records and providing submissions to the ministry's water taking reporting system since taking over operation of the Waterloo Golf Academy. With this in mind, there have been no exceedances of the previously permitted water volumes taken.

2.5 ASSESSMENT OF REGULATION 387/04

The water taken is not transferred outside the drainage basin, it is however used for irrigation purposes. As indicated in section 2.4 the permit holder has ensured that their recorded data of the daily water taking volume is reported on an annual basis by March 31st of each year through the ministry's Water Taking Reporting System.

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

There were no non-compliance issues related to the previous inspection of this site when it was operated by Greenboro Lawn Care Inc. and to whom PTTW 8224-7V8PKL was issued.

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate ?

No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

No

Specifics:

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?

Yes

Specifics:

GolfNorth Properties Inc. operating as Waterloo Golf Academy has been taking water >50000L/day without a Permit to Take Water in contravention of Section 34 of the Ontario Water Resources Act.

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?

No

Specifics:

Was there any indication of minor administrative non-compliance?

No

Specifics:

5.0 ACTION(S) REQUIRED

As part of this inspection GolfNorth Properties Inc. operating as Waterloo Golf Academy is required to complete the action item(s) listed below:

1. GolfNorth Properties Inc. operating as the Waterloo Golf Academy shall provide notice to the undersigned provincial officer of their decision to submit a Permit To Take Water application or to decrease their water taking to less than 50,000 Litres/day at the Waterloo Golf Academy site . This notice shall be made by letter or email to the undersigned provincial officer and shall be submitted by no later than December 31, 2016
2. GolfNorth Properties Inc. operating as Waterloo Golf Academy is required to submit a complete Permit to Take Water application to the ministry for any water taking greater than 50,000 L/day at the Waterloo Golf Academy site. No water at a volume greater than 50,000 Litres/day shall be taken without a Permit to Take Water.

Mailing address:

Ministry of the Environment and Climate Change
One Stone Road West, 4th Floor
Guelph, ON N1G 4Y2

Email:

dana.mohammed@ontario.ca

6.0 OTHER INSPECTION FINDINGS

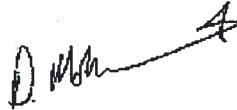
7.0 INCIDENT REPORT

Applicable
1270-AEXKUN 

8.0 ATTACHMENTS

PREPARED BY:
Environmental Officer:
Name:
District Office:
Date:
Signature

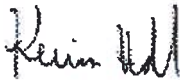
Dana Mohammed
Guelph District Office
2016/10/21



REVIEWED BY:
District Supervisor:
Name:
District Office:
Date:

Kevin Noll
Guelph District Office
2016/10/28

Signature:



File Storage Number: WA WI VI 220

Note:

"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"



Ministry of the Environment
Ministère de l'Environnement

Pesticide Operator Exterminator Inspection Report

Client:	Greenboro Lawn Care Inc., Business/Facility Name: Waterloo Golf Academy Mailing Address: 100 Wilmot Line, Waterloo, Ontario, Canada, N2T 1A1 Physical Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, Ontario, Canada, N2T 1A1 Telephone: (519)886-6555 Client #: 4000-7 ELK86, Client Type: Corporation		
Inspection Site Address:	Waterloo Golf Academy Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, N2T 1A1 District Office: Guelph GeoReference: .		
Contact Name:	Doug Black	Title:	Owner
Contact Telephone:	(519)886-6555 ext	Contact Fax:	
Last Inspection Date:	1999/09/17		
Inspection Start Date:	2008/05/12	Inspection Finish Date:	2008/05/12
Region:	West Central		

1.0 INTRODUCTION

The purpose of this inspection was to assess for compliance with the pesticide licencing, storage, posting, use requirements etc under Ontario Regulation 914 made under the Pesticides Act. The inspection included a field visit to Waterloo Golf Academy, and a meeting with Jordan K. Lucas, the golf course greenskeeper and a telephone discussion and meeting with Doug Black, one of the owners.

In parallel to this pesticide Operator/Exterminator inspection, other environmental issues were reviewed including subject waste handling and water taking for which a Permit to Take Water inspection was also completed.

2.0 INSPECTION OBSERVATIONS

2.1 LICENSE REQUIREMENTS

s.21 Operator/Exterminator License Number(s):

DOUG BLACK, Exterminator licence: [REDACTED]

JORDAN K LUCAS, Exterminator licence: [REDACTED]

It was indicated during the inspection that there are two licenced exterminators and that the licenced exterminators do all pesticide applications and that there are no technicians or trainees.

Pesticide Operator Exterminator Inspection Report

It was indicated that no pesticide applications are done that require permits.

2.2 STORAGE/TRANSPORT:

Pesticide	Size	Quantity	PCP#	Schedule
Trikil	10 L	-	-	Schedule 3
Daconil	-	-	-	-
Malathion	-	-	4282	Schedule 3

Pesticides used for horticultural pest control by Waterloo Golf Academy were being stored in a designated room, which complies with/(or failed to meet) the following regulatory requirements:

Schedule	Regulation 914 requirement	Section	Compliance
1-6	Unlikely to contaminate food or drink	119.	Comply
	Unlikely to impair health and safety	120(1)1	Comply
	-clean and orderly -in good repair -precautions to prevent contaminating	121(1)2	Comply One container of Trikil in a plastic tote, <u>other pesticides no secondary containment.</u>
	Warning sign posted	121(1)3	Warning Sign posted on door of pesticide storage room and building
	Display emergency telephone numbers	121(1)4	Posted
1,2 & 5	Vented to the outside	120. (1)	No odours in room.
	Inaccessible to public	122(1)(c)	Room locked
	No floor drain	122(2)(b)	No floor drain in room
	Protective equipment readily available	122(2)(b)	Safety equipment available
1 & 5	Area exclusive for pesticides	123(1)	N/A, No Schedule 1 & 5,

It was indicated during the inspection that very limited pesticides are kept in stock and that they are picked up from the Ontario Seed pesticide warehouse as required.

2.3 HANDLING/USAGE:

Water for pesticide application is obtained from a hose at the shed, which connects to the irrigation pond. There is not a check valve to prevent backflow as required.

The basic pesticide program currently in place consists of:

Greens- the fungicide daconil is used only as required, starting in mid June for 2007. Banner and Quintozene were also used in 2007.

Insect control. Do not have grub problems as there are no trees and a pyrethrin insecticide is used for ant control on greens

Fairways- Merit is used for grubs, for weed control Trikil was used on the rough in 2007 and mecoprop on fairways. For 2008, herbicide application will be spot spray only.

The pesticide application records for the last several years were reviewed and indicated a general reduction in pesticide use over the past several years. It was indicated that IPM is practised and has been practised for years. Part of the IPM program includes using foliar fertilizer to grow a disease out versus chemical control.

It was indicated that posting is done as required. Pesticide warning signs are posted at the front and along the front, on the back corner of the course at the mini golf area and at the parking area.

It was indicated that empty pesticide containers are tripled rinsed and punctured and were previously taken to a pesticide container recycling depot, but are now sent to landfill. Shipping empty pesticide containers to a pesticide container depot is the preferred method and allows for recycling.

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate ?

No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

No

Specifics:

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?

Yes

Specifics:

Check valve to prevent backflow required.

Section 23.2.b ii 18.11 of Regulation 347 which requires submit white copy of manifest

Section 18.11 of Regulation 347, which requires match Copy 6 to Copy 2 to confirm waste transaction

Spill reporting required

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?

Yes

Specifics:

No written procedure for spills

Bulk storage of used oil and fuel has no secondary containment provisions

Spill of diesel requires proper clean-up and disposal of the contaminated soil and verification sampling to confirm clean-up.

Was there any indication of minor administrative non-compliance?

No

Specifics:

5.0 ACTION(S) REQUIRED

This Inspection Report contains several issues which are underlined in the report, that are violations or areas where best management practices were not in place, which could potentially result in environmental compliance issues.

Submit an Action Plan to the MOE Guelph District Office by June 13, 2008 addressing all underlined issues in this inspection report.

6.0 OTHER INSPECTION FINDINGS

Contingency Plan

There is no written procedure for spills. It is recommended that a basic contingency plan should be developed and include as appropriate:

- map of property identifying all wastes, products and other materials, with the exact locations of all above ground tanks, chemical storage areas, drum storage areas etc.
- mapping of sanitary and storm sewers, with connections, flow directions, locations where sewers can be blocked or vacuumed for spill control
- notification requirements for spills
- emergency telephone numbers
- methods for collection, treatment, disposal and clean-up of spilled materials
- contractors for spills
- catchment areas for containment
- emergency response equipment
- a "what if" listing of spill or release scenarios, and details of the methods of detection, containment, response plans and training for each "what if" scenario.
- a copy of a current contingency plan in an accessible location, ie outside box or office vestibule

Subject Waste

Waterloo Golf Academy have a generator registration number ON5993979 and according to the MOE tracking system have disposed of one shipment of 900 L of waste oil in 2004 via Manifest XX73263.

During the inspection the copy 1 (white) and 2 (green) of a manifest was provided for the disposal of 205 L of waste oil via manifest JN80652-8 on May 2, 2008.

Waste oil is stored in a 205 L drum in the pesticide storage room. There was no secondary containment for the oil storage. The Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities (http://www.ene.gov.on.ca/envision/env_reg/er/documents/2007/Storage%20Guidelines.pdf) should be reviewed in regards to proper bulk storage relating to containment provisions, level indicators and overfill protection.

It was indicated that parts cleaner is also disposed of, except there were no manifests for the disposal of solvent.

The white copy of the manifest was still in Waterloo Golf Academy files for the recent waste shipment. The regulatory requirement in Section 23.2.b.ii18.11 of Regulation 347 was discussed and requires that the generator return copy 1(White) to the MOE within three working days.

The regulatory requirement in Section 18.11 of Regulation 347 was discussed, this requires that the generator report to the Director any transferred subject waste that the generator is not able within 4 weeks to confirm was delivered to the intended receiving facility. When Copy 6 is returned to the generator from the receiving facility, and matched to Copy 2, this confirms to the generator that the waste transaction is complete. A dedicated file for manifests should be set up to ensure Copy 2 and 6 are matched to confirm the waste transaction.

Fuel Tanks

There are two tanks for gas and diesel storage. As shown in the attached pictures there is soil staining with what appears to be diesel fuel around the diesel tank. It was indicated subsequent to the inspection that the diesel oil was stolen in October of 2007 and the pump was cut and diesel spilled around the tank. MOE files do not indicate a spill or release of diesel fuel from that time was reported, which is required for a spill to the natural environment. The staining from the diesel spill is still very apparent and the spill requires proper clean-up and disposal of the contaminated soil and verification sampling to confirm clean-up.

7.0 INCIDENT REPORT

8361-7ETLCA ☐

8.0 ATTACHMENTS

PREPARED BY:

Environmental Officer:

Name:

Bob Miller

District Office:

Guelph District Office

Date:

2008/05/20

Signature



REVIEWED BY:

District Supervisor:

Name:

John Cooke

District Office:

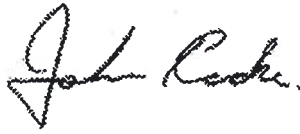
Guelph District Office

Date:

2008/05/28

Signature:

Pesticide Operator Exterminator Inspection Report



File Storage Number: SIWAWAWI 102

Note:

"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"



RECORD OF SITE VISIT

Reference Number:	7323-A98NBC	File Storage Number:	WA WI WI 220
Module:	Inspections	Module Type:	Permit To Take Water
Cross Reference:	(doc link)	Task Link:	8163-A98NC5 ☐
Originating Document:		Created by:	Dana Mohammed
Incident Report Reference Number:		1270-AEXKUN ☐	
Date Created:	2016/04/21	Date Completed:	2016/10/28
Bring Forward Date:		Bring Forward Reason:	
Status:	Final Signed-Off		
Program	Water - Ground & Surface	Activity:	Inspections - PTTW

Client(s)

Client Details
Golf North Properties Inc., Business/Facility Name: Head Office Mailing Address: 400 Golf Course Rd, Conestogo, Ontario, Canada, N0B 1N0 Physical Address: 400 Golf Course Rd Conestogo, Woolwich, Township, Regional Municipality of Waterloo, Ontario, Canada, N0B 1N0 Telephone: (888)833-8787, FAX: (519)664-1639 Client #: 1191-84FQ3T, Client Type: Corporation Additional Address Info: Conestogo + + + + Waterloo Golf Academy Mailing Address: 100 Wilmot Line, Waterloo, Ontario, Canada, N2J 3Z4 Physical Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, Ontario, Canada Telephone: (519)886-6555 Client #: 0493-9MBHMM, Client Type: Corporation

Site(s)

Site Details
100 Wilmot Line Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo District Office: Guelph LIO GeoReference: Zone: 17, UTM Easting: 533376.25, UTM Northing: 4810314.0, Latitude: 43.444984, Longitude: -80.58753 Site #: 1535-9MBHSD

General

Date of Last Inspection:		Inspection Due Date:	
Inspection Start Date:	2016/10/19	Inspection Finish Date:	2016/10/19
Inspection Pass/Fail:	Fail	Risk Score:	

With Minor Admin Violation:	No	IJM Score:	A2
Site Region:	West Central		
File Review:			
Comments:			

Compliance Level	IJM Score
In Compliance	A0 to F0
In Compliance with Comments	A1, B1 and C1
Significant Non-Compliance	Other than above

Inspection Time Of Day

Inspection Time of Day
Indicate if this inspection was conducted during a week day (normal hours) or during an evening, night, weekend or holiday (after hours)
☒ Normal Hours Inspection ☐ After Hours Inspection

Risk Assessment

Plan Category	Planned	Fiscal year	2016/2017
---------------	---------	-------------	-----------

Media	Water
Facility Selection Rationale	
Anticipated	Actual
☐ HE	☐ HE
☐ CV	☐ CV
☐ NC	☐ NC
☐ DI	☐ DI
☐ AN	☐ AN
☐ VS	☐ VS
☐ BP	☐ BP
☐ ES	☐ ES
☐ UK	☐ UK
☒ CP	☒ CP
☐ LP	☐ LP
Risk Category Anticipated	C: Unknown Risk to Human Health or Environment
Risk Category Actual	C: Unknown Risk to Human Health or Environment
Reason for Risk Change	
Risk Change Discussed with and Approved by District Manager	No
Why were changes made to Risk Information?	



RECORD OF SITE VISIT

Reference Number:	3226-7ENN2X	File Storage Number:	SIWAWAWI 102
Module:	Inspections	Module Type:	Pesticide Operator/Exterminator
Cross Reference:	(doc link)	Task Link:	3120-7ENNBQ ☐
Originating Document:		Created by:	Bob Miller
Incident Report Reference Number:			8361-7ETLCA ☐
Date Created:	2008/05/15	Date Completed:	2008/05/28
Bring Forward Date:		Bring Forward Reason:	
Status:	Final Signed-Off		
Program	Pesticides	Activity:	Inspections - Pest Applicators/Exterminators

Client(s)

Client Details

Greenboro Lawn Care Inc., Business/Facility Name: Waterloo Golf Academy
Mailing Address: 100 Wilmot Line, Waterloo, Ontario, Canada, N2T 1A1
Physical Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, Ontario, Canada, N2T 1A1
Telephone: (519)886-6555
Client #: 4000-7ELK86, Client Type: Corporation

Site(s)

Site Details

Waterloo Golf Academy
Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, N2T 1A1
District Office: Guelph
Site #: 6569-7EMN3Q

General

Date of Last Inspection:	1999/09/17	Inspection Due Date:	
Inspection Start Date:	2008/05/12	Inspection Finish Date:	2008/05/12
Inspection Pass/Fail:	Fail	Risk Score:	
With Minor Admin Violation:	No	IJM Score:	B2
Site Region:	West Central		
File Review:			
Comments:			

Compliance Level	IJM Score
In Compliance	A0 to F0

In Compliance with Comments
Significant Non-Compliance

A1, B1 and C1
Other than above

Inspection Time Of Day

Inspection Time of Day	
Indicate if this inspection was conducted during a week day (normal hours) or during an evening, night, weekend or holiday (after hours)	
☒ Normal Hours Inspection	☐ After Hours Inspection

Risk Assessment

Plan Category	Planned	Fiscal year	2008/2009
----------------------	---------	--------------------	-----------

Media	Waste	
Facility Selection Rationale		
Anticipated	Actual	
☐ HE	☐ HE	A: Known Significant Human Health and/or Environmental Impact/Impairment
☐ CV	☐ CV	A: Previous Record of Convictions/Charges Laid (Non-Administrative)
☐ NC	☐ NC	A: A Record of Significant (Non-Administrative) Non-Compliance
☐ DI	☐ DI	A: Lack of Demonstrated Improvement towards Compliance/Remediation (an outright failure (non-administrative) in previous inspection where compliance has not been achieved.
☐ AN	☐ AN	B: Human Health and/or Environmental Impairment is Anticipated/Suspected.
☐ VS	☐ VS	B: Violation of a Legal Requirement is Suspected (with human health and/or environmental impact.
☒ BP	☒ BP	B: Nature of Site Operations/Business Represent an Inherent Level of Risk (where impact to human health and/or environment is anticipated due to nature of site/Facility Processes and Waste Streams and/or Discharges)
☐ ES	☐ ES	B: Emerging Sectors (where knowledge is limited but concern for environmental impacts exists)
☐ UK	☐ UK	C: Risk Unknown/New Facility and/or General Deterrent
☐ CP	☐ CP	C: Corporate Priority
☐ LP	☐ LP	C: Low Priority
Risk Category Anticipated		B: Anticipated Human Health or Environmental Impact
Risk Category Actual		B: Anticipated Human Health or Environmental Impact
Reason for Risk Change		
Risk Change Discussed with and Approved by District Manager		
Why were changes made to Risk Information?		

RECORD OF SITE VISIT

Reference Number:	1803-7EMN65	File Storage Number:	SIWAWAWI 540
Module:	Inspections	Module Type:	Permit To Take Water
Cross Reference:	(doc link)	Task Link:	4112-7EMN8X ☐
Originating Document:		Created by:	Bob Miller
Incident Report Reference Number:			8327-7ETNTS ☐
Date Created:	2008/05/14	Date Completed:	2008/05/29
Bring Forward Date:		Bring Forward Reason:	
Status:	Final Signed-Off		
Program	Water - Ground & Surface	Activity:	Inspections - PTTW

Client(s)

Client Details
Greenboro Lawn Care Inc., Business/Facility Name: Waterloo Golf Academy Mailing Address: 100 Wilmot Line, Waterloo, Ontario, Canada, N2T 1A1 Physical Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, Ontario, Canada, N2T 1A1 Telephone: (519)886-6555 Client #: 4000-7ELK86, Client Type: Corporation

Site(s)

Site Details
Waterloo Golf Academy Address: 100 Wilmot Line, Waterloo, City, Regional Municipality of Waterloo, N2T 1A1 District Office: Guelph Site #: 6569-7EMN3Q

General

Date of Last Inspection:		Inspection Due Date:	
Inspection Start Date:	2008/05/12	Inspection Finish Date:	2008/05/12
Inspection Pass/Fail:	Fail	Risk Score:	
With Minor Admin Violation:	No	IJM Score:	C2
Site Region:	West Central		
File Review:			
Comments:			

Compliance Level	IJM Score
In Compliance	A0 to F0
In Compliance with Comments	A1, B1 and C1

Significant Non-Compliance

Other than above

Inspection Time Of Day**Inspection Time of Day**

Indicate if this inspection was conducted during a week day (normal hours) or during an evening, night, weekend or holiday (after hours)

☒ Normal Hours Inspection ☐ After Hours Inspection**Risk Assessment**

Plan Category	Planned	Fiscal year	2008/2009
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Media	Water	
Facility Selection Rationale		
Anticipated	Actual	
☐ HE	☐ HE	A: Known Significant Human Health and/or Environmental Impact/Impairment
☐ CV	☐ CV	A: Previous Record of Convictions/Charges Laid (Non-Administrative)
☐ NC	☐ NC	A: A Record of Significant (Non-Administrative) Non-Compliance
☐ DI	☐ DI	A: Lack of Demonstrated Improvement towards Compliance/Remediation (an outright failure (non-administrative) in previous inspection where compliance has not been achieved.
☐ AN	☐ AN	B: Human Health and/or Environmental Impairment is Anticipated/Suspected.
☒ VS	☒ VS	B: Violation of a Legal Requirement is Suspected (with human health and/or environmental impact.
☐ BP	☐ BP	B: Nature of Site Operations/Business Represent an Inherent Level of Risk (where impact to human health and/or environment is anticipated due to nature of site/Facility Processes and Waste Streams and/or Discharges)
☐ ES	☐ ES	B: Emerging Sectors (where knowledge is limited but concern for environmental impacts exists)
☐ UK	☐ UK	C: Risk Unknown/New Facility and/or General Deterrent
☐ CP	☐ CP	C: Corporate Priority
☐ LP	☐ LP	C: Low Priority
Risk Category Anticipated		B: Anticipated Human Health or Environmental Impact
Risk Category Actual		B: Anticipated Human Health or Environmental Impact
Reason for Risk Change		
Risk Change Discussed with and Approved by District Manager		
Why were changes made to Risk Information?		



OCCURENCE REPORT

Ministry of the
Environment

Location of Occurrence: WATERLOO CITY 100 WILMONT ROAD, WATERLOO Reg: 2 Dist: GU Municipality: 25103		Source: WATERLOO GOLF ACADEMY 100 WILMONT RD Sector: Source: SIC: UTM: N: [4814000] E: [537000] Zone: [17]	
Entered: 1999/09/17 14:08	ORIS No. 9920002295	Abstracts: 0	Diarles: 0
Received By: JUDY DOLSON		Batch: 3341	I. E. B. No.
Occurrence Type: N	Subtype: 04	Occurrence Date:	
Work Plan:	WS	Occurrence Time:	
Reported By: BOB MILLER MINISTRY OF THE ENVIRONMENT		Report to MOE: 1999/09/16 00:00 MOE at Scene:	
Telephone No. [REDACTED]	Alternate No. x	Assigned To:	BOB MILLER
Address: 1 STONE ROAD WEST GUELPH Postal Code: N1G 4Y2		ERP Contacted: Callout: ☐ ERP Name:	NSP: ☐
Syn: INSPECTION			
Brief Summary: -PTTW INSPECTION - APPLIED FOR PERMIT IN 1994 -NOT ISSUED ADDITIONAL INFO REQUIRED. -PESTICIDE INSPECTION - 3 RECOMMENDATIONS FOR IMPROVEMENTS - REG 347 - REQUIRE A GRR AND DISPOSAL OF WASTE OIL; WORK PLAN REQUESTED BY OCTOBER 15, 1999			
If there are related reports, record initial/master ORIS No. here >> 1224			
Followup Action: Abatement IEB Other BF Date: NOV. 23/99 - PHONED DOUG BLACK. ALL WASTE DISPOSED OF. APPLIED FOR GRR. - SENT TO T.O.. APPLIED FOR PTTW.			
File Closed: Y Abatement: IEB Other Suspected Violation:			
Report Prepared By: BOB MILLER	Date: 23/11/99	IEB Investigator:	IEB BF Date
Approving Officer JOHN COOKE	Date: 25/11/99	Reviewing Officer:	Date
Specify number(s) for routing Original [] [] [] [] [] Specify number(s) for copy distribution [] [] [] [] [] []		Continued [] Yes	
1. Investigator/E.O.	2. D. O. /File	3. SAC (Initial spills)	
4. Reg. Dir. / _____ Mgr.	5. IEB Reg. Spv	6. IEB H.O./file	
		7. Other _____	
SAC Action Class: 1: 2:			

Material 1: N/A

Amount :

Material 2:

Amount :

Material 3:

Amount :

Code :

UN No.:

Code :

UN No.:

Code :

UN No.:

Cause. :		Code. . :
Reason. :		Code. . :
Person in Control:		Waste GenNum :
Owner. :		Waste GenNum :
Agencies Involved. :		
Clean up and Restoration Carried out by:		
☐ [v] Controller ☐ [v] Owner ☐ [N] Other		
% Cleaned up:		Estimated Cost:
Were Directions or Approval Given Under		
EPA Part X ☐ [v]	Regulation 362 ☐ [v]	Manifest No.
Waste Class :		Code . . :
Hauler :		Code . . :
Disposal Site :		Code . . :
Environmental Impact:	Nature of Impact:	Code . . :
People/Business Damaged		
(Other than to Owner/Controller) :		
Nature of Damage:		Code . . :



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: 416 734 3300
Fax: 416 231 1626
Toll Free: 1 877 682 8772

www.tssa.org

Tel: (416) 734-3570

Fax: (416) 734-3568

Email: publicinformationservices@tssa.org

11 May 2017

File No: FS 61095

Travis Pawlick
Environmental Scientist
STANTEC CONSULTING
100-300 Hagey Boulevard
WATERLOO ON N2L 0A4



Dear Sir:

RE: 980 Erb Street West, Waterloo, Ontario – Your Project No: 161413446

This is with reference to your request and fee of \$50.00 + HST, for information on the above location.

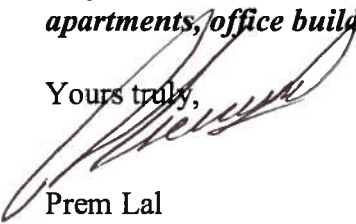
After a search of our files, TSSA has no record of any outstanding instructions, incident reports, fuel oil spills, or contamination records respecting the above-mentioned property.

We have no record of retail facilities or underground storage tanks licensed or registered at the above address.

TSSA cannot guarantee having information on sites that have not been licensed since 1987.

It should be noted that 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. Also note that the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences etc. or ABOVEGROUND gas or diesel tanks.

Yours truly,


Prem Lal
Coordinator Public Information Services



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11 May 2017

File No: FS 61093

Travis Pa^wlick
Environmental Scientist
STANTEC CONSULTING
100-300 Hagey Boulevard
WATERLOO ON N2L 0A4

Dear Sir:

RE: 100 Wilmot Line, Waterloo, Ontario – Your Project No: 161413446

This is with reference to your request and fee of \$50.00 + HST, for information on the above location.

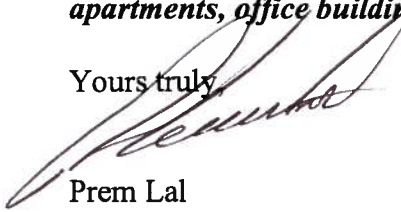
After a search of our files, TSSA has no record of any outstanding instructions, incident reports, fuel oil spills, or contamination records respecting the above-mentioned property.

We have no record of retail facilities or underground storage tanks licensed or registered at the above address.

TSSA cannot guarantee having information on sites that have not been licensed since 1987.

It should be noted that 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. Also note that the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences etc. or ABOVEGROUND gas or diesel tanks.

Yours truly,


Prem Lal
Coordinator Public Information Services



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11 May 2017

File No: FS 61094

Travis Pa^uelick
Environmental Scientist
STANTEC CONSULTING
100-300 Hagey Boulevard
WATERLOO ON N2L 0A4

Dear Sir:

RE: 930 Erb Street West, Waterloo, Ontario – Your Project No: 161413446

This is with reference to your request and fee of \$50.00 + HST, for information on the above location.

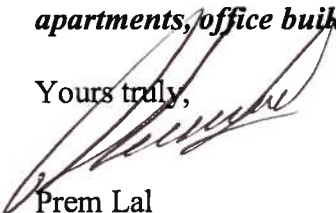
After a search of our files, TSSA has no record of any outstanding instructions, incident reports, fuel oil spills, or contamination records respecting the above-mentioned property.

We have no record of retail facilities or underground storage tanks licensed or registered at the above address.

TSSA cannot guarantee having information on sites that have not been licensed since 1987.

It should be noted that 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. Also note that the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences etc. or ABOVEGROUND gas or diesel tanks.

Yours truly,


Prem Lal
Coordinator Public Information Services