Phase One Environmental Site Assessment

Hawkesville Road and Northside Drive Development Lands, St. Jacobs, Ontario

Schlegel Urban Developments

March 13, 2025

→ The Power of Commitment

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1. Executive Summary

GHD Limited (GHD) was retained by Schlegel Urban Developments (Schlegel) to conduct a Phase One Environmental Site Assessment (ESA) of a land parcel located north of Hawkesville Road and west of Northside Drive in St. Jacobs, Ontario. The assembled land parcel includes four previously separate properties: an agricultural property located at 52 Hawkesville Road, two residential properties located at 110 Northside Drive and 118 Northside Drive, and a parcel of agricultural land located within a property legally described as Part of Lot 37 German Company Tract. Collectively, these land parcels are referred to herein as the Site or Property. The Site is currently owned by Schlegel and consists of agricultural lands, and two rural residential dwellings. Schlegel also owns the woodlot lands to the north of the Site; however, these lands are not included within the Site boundary for this Phase One ESA.

The purpose of the Phase One ESA was to identify, through a non-intrusive investigation, the existence of any Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs) associated with the Site. PCAs and APECs are defined in Ontario Regulation 153/04, as amended (O. Reg. 153/04). It is GHD's understanding that the Phase One ESA was completed to support the potential future filing of a Record of Site Condition (RSC).

The Site is approximately 15.24 hectares (37.65 acres) in size and consists of four land parcels. The portion of the Site located on Part of Lot 37 German Company Tract is approximately 4.61 hectares (11.39 acres) in size and contains an agricultural field. The portion of the Site located at 52 Hawkesville Road is approximately 9.67 hectares (23.89 acres) in size and contains agricultural fields. Access to this portion of the Property is provided from Hawkesville Road. The portion of the Site located at 118 Northside Drive is approximately 0.76 hectares (1.88 acres) in size and contains a two-storey residential dwelling located on the eastern portion of the property. The Site representative indicated that the residential dwelling has a footprint of approximately 111 square metres (1,200 square feet) and was built prior to 1930. Access to this portion of the Property is provided from a gravel driveway from Northside Drive. The portion of the Site located at 110 Northside Drive is approximately 0.20 hectares (0.49 acres) in size and contains a two-storey residential dwelling located on the eastern portion of the property. The Site representative indicated that the residential dwelling has a footprint of approximately 223 square metres (2,400 square feet) and was built sometime between 1955 and 1964. Access to this portion of the Property is provided from an asphalt driveway from Northside Drive.

No information was available regarding the use of the Site between 1798 and 1930; however, it is assumed that the first developed use of the Property was residential and/or agricultural, based on the current Site use.

Based on the results of the Phase One ESA, including the Site inspection, information provided by the Site representatives and regulatory agencies, documents reviewed and the review of Site history, the following APECs were identified to be associated with the Site:

- **APEC #1 – Release of Fuel from Off-Site Aboveground Storage Tank (AST):** Based on review of the environmental databases search report, 1,000 litres of gasoline was spilled from a leaking fuel AST to the ground at a property located 90 metres (m) east of the Site (80 Northside Drive) in 1991. No documentation regarding the fuel AST or spill remediation activities were available. The operation of the fuel AST was identified as a PCA (#28 – Gasoline and Associated Products Storage in in Fixed Tanks) in accordance with O. Reg. 153/04. Because 80 Northside Drive is located hydraulically up-gradient of the Site, the gasoline spill at that property was identified as having the potential to contribute to an APEC at the Site. As a result, the southeastern portion of the Site was identified as **APEC #1**, in the event that the gasoline spilled at 80 Northside Drive in 1991 migrated onto the Site.
- **APEC #2 – Agricultural Chemicals:** Based on review of historical records and discussion with the Site representatives, the western portion of the Site has been utilized for agricultural purposes since at least 1930.

The Site representatives indicated that agricultural chemicals are currently used on the Site by the farmers who lease the land and were used historically at the Site. Additionally, the western portion of the 118 Northside Drive property historically contained an apple orchard which may have involved the use of agricultural chemicals. Information regarding historic and current use or application rates for agricultural chemicals was not available. The current and historical use of agricultural chemicals at the Site is identified as a PCA (#40 – Pesticides [including Herbicides, Fungicides and Anti-Fouling Agents] Manufacturing, Processing, Bulk Storage and Large-Scale Applications) in accordance with O. Reg. 153/04, and most of the Site was identified as **APEC #2**.

Based on the information obtained in completing the Phase One ESA, a Phase Two ESA is required before an RSC can be filed with the Ministry of the Environment, Conservation and Parks (MECP).

2. Introduction

GHD Limited (GHD) was retained by Schlegel Urban Developments (Schlegel) to conduct a Phase One Environmental Site Assessment (ESA) of a land parcel located north of Hawkesville Road and west of Northside Drive in St. Jacobs, Ontario. The assembled land parcel includes four previously separate properties: an agricultural property located at 52 Hawkesville Road, two residential properties located at 110 Northside Drive and 118 Northside Drive, and a land parcel containing agricultural land (legal description Part of Lot 37 German Company Tract), collectively referred to herein as the Site or Property. The Site is currently owned by Schlegel. Schlegel also owns the woodlot lands to the north of the Site, however, these lands are not included within the Site boundary for this Phase One ESA. A Site Location Map and Site Plan are provided on Figure 1 and Figure 2, respectively.

The purpose of the Phase One ESA was to identify, through a non-intrusive investigation, the existence of any Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs) associated with the Site. PCAs and APECs are defined in Ontario Regulation 153/04, as amended (O. Reg. 153/04). It is GHD's understanding that the Phase One ESA was completed to support the potential filing of a Record of Site Condition (RSC).

Contact information for the representative of the Site owner is indicated below:

Mr. Vaughn Bender
Chief Operating Officer
Schlegel Urban Developments
325 Max Becker Drive, Suite 201
Kitchener, Ontario, N2E 4H5
(519) 503-2122
vbender@SchlegelUrban.com

2.1 Phase One ESA Property Information

The Site is approximately 15.24 hectares (37.65 acres) in size and consists of four land parcels. The portion of the Site located on Part of Lot 37 German Company Tract is approximately 4.61 hectares (11.39 acres) in size and contains an agricultural field. The portion of the Site located at 52 Hawkesville Road is approximately 9.67 hectares (23.89 acres) in size and contains agricultural fields. Access to this portion of the Property is provided from Hawkesville Road. The portion of the Site located at 118 Northside Drive is approximately 0.76 hectares (1.88 acres) in size and contains a two-storey residential dwelling located on the eastern portion of the property. The Site representative indicated that the residential dwelling has a footprint of approximately 111 square metres (1,200 square

feet) and was built prior to 1930. Access to this portion of the Property is provided from a gravel driveway from Northside Drive. The portion of the Site located at 110 Northside Drive is approximately 0.20 hectares (0.49 acres) in size and contains a two-storey residential dwelling located on the eastern portion of the property. The Site representative indicated that the residential dwelling has a footprint of approximately 223 square metres (2,400 square feet) and was built sometime between 1955 and 1964. Access to this portion of the Property is provided from an asphalt driveway from Northside Drive.

No information was available regarding the use of the Site between 1798 and 1930; however, it is assumed that the first developed use of the Property was residential and/or agricultural, based on the current Site use.

3. Scope of Investigation

The Phase One ESA was conducted in accordance with the requirements of O. Reg. 153/04. The Phase One ESA was conducted by Ms. Laura Bender, and was reviewed by Mr. Greg Brooks, all of GHD. The qualifications of Ms. Bender and Mr. Brooks are presented in Appendix A. The following tasks were conducted as part of the Phase One ESA:

- Review of an electronic environmental database search of federal, provincial, and private source databases.
- Review of Property title records.
- Review of available historical records including fire insurance plans, aerial photographs of the Site and surrounding area, regional geological information, and previous environmental reports.
- Review of past and current Property usage and adjacent property occupancy.
- Inspection of the facilities, equipment, utility services, operations, and associated records for the Site.
- Observations of any conditions that represented potential environmental concerns.
- Review of chemical use and storage and spill/release incidents.
- Review of aboveground and underground storage tank records.
- Review of waste handling, accumulation, storage, and disposal practices.
- Review of air emissions and wastewater discharges.
- Review of equipment that potentially contains chlorofluorocarbons.
- Review of equipment that potentially contains polychlorinated biphenyls.
- Observations of potential lead-based paint.
- Observations of potential asbestos-containing materials.
- Inquiries with regulatory agencies and interviews with persons knowledgeable of the Site and Site operations.

In completing the Phase One ESA, GHD relied on information received from all parties as being accurate unless contradicted by written documentation or field observations.

The following report summarizes the information gathered by GHD during the Phase One ESA and identifies any PCAs, as defined in O. Reg. 153/04, within the Phase One ESA study area as well as any APECs associated with the Site. As required by O. Reg. 153/04, this Phase One ESA also identifies any potential contamination migration pathways and receptors associated with the Property, to the extent that the data compiled allows.

This Phase One ESA report has been prepared for the use of Schlegel and may not be relied upon by others without the written consent of GHD.

4. Records Review

4.1 General

4.1.1 Phase One ESA Study Area Determination

Review of historical records indicated that the Site is located in an area of St. Jacobs, Ontario that was developed for mixed industrial, commercial and residential purposes prior to 1930.

The Phase One ESA study area included all properties located wholly or partially within 250 metres (m) of the boundary of the Site, as required by O. Reg. 153/04. This area has been determined by GHD to be a sufficient study area since the assessment did not identify any properties with known environmental impact or the potential to impact the Site from a distance of greater than 250 m.

The properties adjacent to the Site were visually inspected, without accessing the properties, for evidence of existing or potential environmental concerns related to the Phase One ESA. GHD also visually inspected all of the Properties within the Phase One ESA study area that were visible from the Site or surrounding streets. The following buildings or features were located on the properties surrounding the Site:

North: The western portion of the Site is bound to the north by undeveloped forested land. The Site representative indicated that a maple sugar shack which is now used for wood storage is present on the adjacent property to the north. The eastern portion of the Site is bound to the north by residential properties.

East: The northern portion of the Site is bound to the east by residential properties and Northside Drive. The balance of the Site is bound to the east by the Calvary United Church located at 48 Hawkesville Road. Frey's Hatchery (chicken hatchery) is located further east of the Site at 80 Northside Drive, and the St. Jacobs water pumping station is located further east of the Site at 74 Northside Drive.

South: The Site is bound to the south by residential properties and Hawkesville Road. St. Jacobs Produce (produce wholesaler) is located further south of the Site, south of Hawkesville Road, at 55 Hawkesville Road.

West: The Site is bound to the west by railway tracks, and agricultural and rural residential lands further west of the Site.

At the time of the Site inspection, GHD observed the Waterloo Central Railway spur line in a north-south orientation, located adjacent to the west of the Site. Review of aerial photographs (see Section 4.3.1) indicated that a railway spur line has been located adjacent to the west of the Site since at least 1930. The presence of a railway spur line within the Phase One ESA study area was identified as a PCA (#46 – Rail Yards, Tracks and Spurs) in accordance with O. Reg. 153/04. The railway spur line appeared to consist of straight run tracks with no sidings that would have been used for storage of railway cars or off-loading of materials. As such, the presence of the off-Site railway line to the west was not identified as having the potential to contribute to an APEC at the Site.

At the time of the Site inspection, GHD observed two fuel aboveground storage tanks (ASTs) on concrete pads on the eastern portion of the property located approximately 92 m east of the Site at 80 Northside Drive (Frey's Hatchery). The ASTs were situated adjacent to the west of a building on the eastern portion of the property, under a roof awning. The contents and capacity of the fuel ASTs could not be determined. The ASTs appeared to be in good condition, with no visual evidence of releases. Review of the aerial photographs (see Section 4.3.1) indicated that the roof awning

above the fuel ASTs had been constructed in 2012, which is likely when the ASTs were installed in that location. The presence of the two fuel ASTs within the Phase One ESA study area was identified as a PCA (#28 – Gasoline and Associated Products Storage in Fixed Tanks) in accordance with O. Reg. 153/04. Due to the distance between the ASTs and the Site, and that the tanks are newer in age and in good condition, the presence of the off-Site fuel ASTs were not identified as having the potential to contribute to an APEC at the Site.

Based on GHD's knowledge of the area of the Site, PCAs related to industrial and commercial operations conducted within the Phase One ESA study area were identified at the following properties:

– 1549 King Street North, located approximately 210 m southeast of the Site, operates an auto electrical service shop (Art's Auto Electric). The operation of an auto electrical service shop was identified as a PCA (#27 – Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles) in accordance with O. Reg. 153/04. Due to the distance between the Site and 1549 King Street North, and that no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property, the PCA at that property was not identified as having the potential to contribute to an APEC at the Site.
– 3074 Sawmill Road, located approximately 207 m southeast of the Site, operates a fabricated metal parts manufacturing facility at this property [W.K. Dahms Manufacturing Limited (Stone Slinger)]. Steel fabrication was identified as a PCA (#34 –Metal Fabrication) in accordance with O. Reg. 153/04. Due to the distance between the Site and 3074 Sawmill Road, and that no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property, the PCA at that property was not identified as having the potential to contribute to an APEC at the Site.

The Site representatives were not aware of any environmental impacts to the Site attributable to operations conducted on adjacent lands. No visual evidence of any adverse environmental impact to the Site attributable to operations conducted on adjacent properties was observed by GHD during the Site inspection.

4.1.2 First Developed Use Determination

Based on review of the Property title records (see Section 4.1.4), the Site was owned by the Crown prior to 1798, followed by private individuals. The earliest available aerial photograph identified for the Site, dated 1930, indicated that at that time, most of the Site was utilized for agricultural purposes, and a residential dwelling was observed at the 118 Northside Drive property. Lands to the north of the Site were a forested area. No information was available regarding the use of the Site between 1798 and 1930; however, it is assumed that the first developed use of the Property was residential and agricultural given the use of the Site in 1930.

4.1.3 Fire Insurance Plans

Fire insurance plans assist in the identification of historical land use and commonly indicate the existence and location of aboveground and underground storage tanks, structures, improvements, and facility operations. GHD contracted Opta Information Intelligence (Opta) through ERIS to search for any available fire insurance plans that include the area of the Site, and for all available fire insurance information for the Property (i.e., inspection reports and Site plans). Opta reported that no fire insurance information was identified for the Site and that no fire insurance plans were identified for the area of the Site.

A copy of the documentation received from Opta is included in Appendix B.

4.1.4 Chain of Title

GHD contracted Domsons Title Search Inc. (Domsons) to conduct a search of Property title records and other documents (lease agreements, easements, environmental caveats, etc.), dated from at least 1875 (or the date of first recorded deed) to the present, associated with the ownership or occupation of the Site. GHD also reviewed Property ownership through historical records and information provided by Site personnel. The legal description of the Site, as reported to GHD, is firstly Lots 38 and 39 on Registrar's Compiled Plan (RCP) 1547; and secondly Part of Lot 37 German Company Tract as in 1202515 east of Canadian National Railway (CNR), and 988702 (firstly lying east of CNR) except Registered Plan 58R-10739 and Part 1 of WDR261, Township of Woolwich, Ontario [Property Identification Number (PIN): 22234-0382(LT)].

The following entities were reported to be associated with the ownership of the Property during the specified time periods:

Ownership Period	Registered Owner(s) – 110 Northside Drive, St. Jacobs, Ontario
Prior to 1798	The Crown
1798 to 1807	William Wallace
1807 to 1832	Jacob Erb
1832 to 1837	Peter Eby
1837 to 1859	Joseph Shantz
1859 to 1887	Jacob Weber
1887 to 1921	Henry Wiebergall
1921 to 1951	Harry Garner
1951 to 1958	Harry Ernest Garner
1958 to 1970	Milfred Snyder
1970 to 1985	Director, The Veterans' Land Act
1985 to 2013	Alfred Bingham Harris
2013 to 2019	Georgina Alberta Harris
2019 to 2024	1553743 Ontario Limited
2024 to Present	Schlegel Urban Developments

Ownership Period	Registered Owner(s) – 118 Northside Drive, St. Jacobs, Ontario
Prior to 1798	The Crown
1798 to 1807	William Wallace
1807 to 1832	Jacob Erb
1832 to 1837	Peter Eby
1837 to 1859	Joseph Shantz
1859 to 1887	Jacob Weber
1887 to 1921	Henry Wiebergall
1921 to 1951	Harry Garner
1951 to 1984	Harry Ernest Garner

Ownership Period	Registered Owner(s) – 118 Northside Drive, St. Jacobs, Ontario
1984 to 1994	Richard and Derry Frede
1994 to 2024*	Richard Frede
2024 to Present*	Schlegel Urban Developments

*GHD confirmed with the Site representative that Schlegel acquired the 118 Northside Drive property in 2024. This transaction had not been included in the chain of title report provided by Domsons.

Ownership Period	Registered Owner(s) – Part of Lot 37 German Company Tract, St. Jacobs, Ontario (Woodlot)
Prior to 1798	The Crown
1798 to 1807	William Wallace
1807 to 1831	Jacob Erb
1831 to 1839	David Martin
1839 to 1903	Peter Martin
1903 to 1933	Tilman M. Martin
1933 to 1948	Daniel S. Shantz
1948 to 1974	Ervin Shantz and Ester Shantz
1974 to 1994	Daniel Shantz
1994 to 1996	Salema Shantz
1996 to 2004	Daniel Shantz and Salema Shantz
2004 to 2004	Salema Shantz
2004 to 2024	1604964 Ontario Inc.
2024 to Present	Schlegel Urban Developments

Ownership Period	Registered Owner(s) – 52 Hawkesville Road, St. Jacobs, ON
Prior to 1798	The Crown
1798 to 1807	William Wallace
1807 to 1831	Jacob Erb
1831 to 1838	David Martin
1838 to 1879	Anthony Reitzel
1879 to 1879	Charles Gies
1879 to 1921	Leon Reutzel
1921 to 1922	Henry Doerbacker
1922 to 1951	Simon M. Martin
1951 to 1968	Cleason Clemmer
1968 to 1968	Noah B. Martin
1968 to 1989	Aveline Farms Limited
1989 to 2024	650207 Ontario Limited
2024 to Present	Schlegel Urban Developments

No lease agreements, easements, or environmental liens were identified by Domsons to be on title for the Site.

A copy of the Property title search records is included in Appendix C.

4.1.5 Previous Environmental Reports

GHD reviewed the following previous environmental report related to the Site as part of the Phase One ESA:

– "Phase I Environmental Site Assessment – 110 & 118 Northside Drive and the Adjoining Agricultural Property (Part of Tract German Company Pt Lot 37 – Civic Address TWP 24 Rd #S) – St. Jacobs, Ontario", prepared for Mr. Mike Gilles, BA, C.E.T. and Richard Frede, 1604964 Ontario Inc. and 1553743 Ontario Ltd., prepared by Chung & Vander Doelen Engineering Ltd. (CVD), dated November 18, 2021 (2021 CVD Phase I ESA)

CVD completed a Phase I ESA for the residential properties on the Site located at 110 and 118 Northside Drive, as well as a small adjacent portion of the lands located on Part of Lot 37 German Company Tract. The 2021 CVD Phase I ESA did not identify any areas of potential environmental concern associated with the Site.

A copy of the 2021 CVD Phase I ESA is provided in Appendix D.

GHD completed a hydrogeological investigation for the Site in 2024. In December 2021, CVD installed 7 monitoring wells (BH1 through BH6 and BH10) as part of a separate scope. In April 2024, GHD installed 10 monitoring wells (MW1-24 through MW10-24). The monitoring well locations are shown on Figure 2. The monitoring wells were installed at depths ranging from 3.66 to 6.71 m below ground surface (mBGS). Stratigraphy encountered generally consisted of surficial topsoil underlain by sand, a clay/silt mixture, and a till unit with varying fractions of clay and silt. The depth to groundwater measured ranged from 0.28 to 4.07 mBGS (at MW7-24 and MW8-24, respectively), and groundwater elevations within the monitoring wells ranged from 341.83 to 347.39 mAMSL (at MW8-24 and MW9-24, respectively). Groundwater contours were prepared for monitoring events completed in November 2024 and January 2025. Groundwater flow was interpreted to split into two major components with groundwater flowing north and southwest. MW6-24 and MW7-24 represent the centre of the divide between the two groundwater flow components. To the north of these two wells groundwater flows towards the wetland. To the south of MW6-24 and MW7-24, groundwater flows to the southwest towards the spur line. Groundwater samples were collected from MW1-24, MW4-24 and MW7-24 for metals and general chemistry. All of the groundwater analytical data met the Table 1: Full Depth Background Site Condition Standards for All Types of Property Use [Ministry of the Environment, Conservation and Parks (MECP) Table 1 Standards] as contained in the document entitled, "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011.

4.2 Environmental Source Information

4.2.1 Regulatory Review

The Ministry of the Environment, Conservation and Parks (MECP) was contacted by GHD to provide information regarding any past complaints, violations, and/or MECP directives concerning the Site. The MECP provided correspondence to GHD indicating that no records were identified to be associated with the Site.

The Technical Standards and Safety Authority (TSSA) was contacted by GHD and asked to provide information concerning any licensed retail fuel outlets or registered private fuel outlets located at the Site. TSSA personnel provided e-mail correspondence to GHD indicating that no records were identified to be associated with the Site. A copy of the regulatory agency correspondence is included in Appendix E.

4.2.2 Environmental Databases Search

GHD contracted ERIS to conduct a search of available federal, provincial, and private environmental databases. Based on the municipal and legal addresses of the Site, the databases search was completed to assist in the identification of environmental conditions at the Site and within the Phase One ESA study area. Eight records were identified in the environmental databases to be associated with the Site, and fifty-eight records were identified to be associated with properties located within the Phase One ESA study area. The complete database search report, which also identifies limitations associated with this information, is included in Appendix F. GHD verified the distances from the Site to properties within the Phase One ESA study area using Region of Waterloo's Geographic Information System (GIS) Locator website.

Based on the review of the information provided in the environmental databases search report, no PCAs were identified to be associated with the Site.

Based on the review of the information provided in the environmental databases search report, PCAs identified within the Phase One ESA study are summarized in the table below:

Property Address	Referenced Database(s)	Records Summary	PCA(s), in accordance with O. Reg. 153/04	PCA(s) contributing to an APEC at the Property (Yes/No and Rationale)
1637 King Street North (northeast of the Site)	GEN	The record indicates that Horsty's Welding Ltd. completed automotive repair and maintenance operations.	#27 – Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles #34 – Metal Fabrication	No – Based on the distance between the 1637 King Street North property and the Site, and based on the 1637 King Street North property being downgradient of the Site.
48 Hawkesville Road (adjacent to the east of the Site)	PES	Calvary United Church was listed as a limited vendor licence holder (retail vendor class) for registered pesticides.	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	No – Due to Calvary United Church being listed as a limited vendor licence holder, any pesticides would be used in small quantities. Also, no records were identified in the environmental databases search report associated with 48 Hawkesville Road with regards to any chemical releases to the natural environment.
1600 King Street North (80 m east of the Site)	SCT	D & D Mould Pattern & Die Machine was listed as a manufacturer of industrial moulds and fabricated metal and plastic products.	#34 – Metal Fabrication #43 – Plastics (including Fibreglass) Manufacturing and Processing	No – 1600 King Street North is located hydraulically cross-gradient of the Site. Also, no records were identified in the environmental databases search report associated with 1600 King Street North with regards to any chemical releases to the natural environment.
1580 King Street North (150 m east of the Site)	SCT	Mechdyne Corporation Canada was listed as a manufacturer of computer and peripheral equipment manufacturing.	#19 – Electronic and Computer Equipment Manufacturing.	No – Due to the distance between the Site and 1580 King Street North, and 1580 King Street North is located hydraulically cross-gradient of the Site. Also, no records were identified in the environmental databases search report associated with 1580 King Street North with regards to any chemical releases to the natural environment.

Property Address	Referenced Database(s)	Records Summary	PCA(s), in accordance with O. Reg. 153/04	PCA(s) contributing to an APEC at the Property (Yes/No and Rationale)
7 Chris Court (210 m southeast of the Site)	SCT	Manutech Inc. was listed as a manufacturer of metalworking machinery.	#34 – Metal Fabrication	No – Due to the distance between the Site and 7 Chris Court, and 7 Chris Court is located hydraulically cross-gradient of the Site. Also, no records were identified in the environmental databases search report associated with 7 Chris Court with regards to any chemical releases to the natural environment.
1550 King Street North (150 m east of the Site)	SCT	Rainbow Tool and Die Manufacturing Inc. was listed as a manufacturer of metalworking machinery.	#34 – Metal Fabrication	No – Due to the distance between the Site and 1550 King Street North, and 1550 King Street North is located hydraulically cross-gradient of the Site. Also, no records were identified in the environmental databases search report associated with 1550 King Street North with regards to any chemical releases to the natural environment.
80 Northside Drive (90 m east of the Site)	SPL	In 1991, Frey's Hatchery reported a spill of 1,000 litres of gasoline to the ground from a leaking AST. No documentation regarding the AST or spill remediation activities were available.	#28 – Gasoline and Associated Products Storage in Fixed Tanks.	Yes – Due to 80 Northside Drive being located hydraulically up-gradient of the Site, the southeastern portion of the Site was identified as **APEC #1**, in the event that the 1991 gasoline spill at 80 Northside Drive migrated onto the Site. As discussed in Section 4.1.1, two fuel ASTs were observed by GHD which were likely installed in 2012 based on the 2012 aerial image (see Section 4.3.1). Because the spill occurred in 1991, it is unlikely that the spill was associated with these ASTs.

4.2.3 Region of Waterloo Environmental Records Search

GHD contacted the Region of Waterloo (ROW) to conduct a search of the Region of Waterloo Hydrogeology and Source Protection Urban Threats database (TID) and the Environmental Enforcement and Laboratory Services' Environmental Incident (spill to the environment) Reports database. The complete TID and Environmental Incident search report, which also identifies limitations associated with this information, is included in Appendix G.

No records were identified in the TID to be associated with the Site, and three records were identified to be associated with properties located within the Phase One ESA study area. Based on the review of the information provided in the TID search report, PCAs identified within the Phase One ESA study are summarized below:

– 1637 King Street North, located to the northeast of the Site, historically operated a welding shop. Horsty's Welding Limited was listed in a 2003 business directory. The Site representative indicated that the operations included welding for tractor and vehicle maintenance, and that no fuel tanks were present on the property to their knowledge. A building presumed to be the welding shop, located on the eastern portion of the property was first observed in the 1964 aerial photograph (see Section 4.3.1). The Site representative indicated that Horsty's Welding Limited ceased operations in approximately 2010. The historical welding operations and vehicle maintenance were identified as PCAs (#27 – Garages and Maintenance and Repair of Railcars, Marine Vehicles

and Aviation Vehicles and #34 – Metal Fabrication) in accordance with O. Reg. 153/04. Due to the distance between 1637 King Street North and the Site, the historical welding and vehicle maintenance operations at that property were not identified as having the potential to contribute to an APEC at the Site.

– 1645 King Street North, located northeast of the Site, historically operated a painting and wall covering contracting business. Jano's, Rudy Painting and Wallpapering was listed in a 2003 business directory. The Site representative indicated that he had previously observed painting vans exiting and entering the property for off-Site painting operations, however, he could not confirm the on-Site operations. A shop building presumed to be associated with the business, located on the eastern portion of the property, was first observed in the 1980 aerial photograph (see Section 4.3.1). No signage was visible by GHD during the Site inspection. An internet search indicated that the company was in operation until at least 2020, however is likely no longer in operation. The potential historical bulk storage of paint was identified as a PCA (#39 – Paints Manufacturing, Processing and Bulk Storage) in accordance with O. Reg. 153/04. Due to the distance between 1645 King Street North and the Site, the potential historical bulk storage of paint at that property was not identified as having the potential to contribute to an APEC at the Site.

The ROW provided correspondence to GHD indicating that no records were identified in the Environmental Incident search report to be associated with the Site.

4.3 Physical Setting

4.3.1 Aerial Photographs

Aerial photographs were reviewed to generally document the development of the Site and properties in the vicinity of the Site, and to identify the existence of any significant actual or potential areas of environmental impairment at the Site. GHD obtained aerial photographs of the Site and surrounding area from the National Air Photo Library, Ontario Department of Lands and Forest, Government of Ontario and Maxar Technologies through ERIS for the years 1930, 1955, 1964, 1971, 1980, 1990, 2006, 2015 and 2022. GHD also reviewed aerial imagery of the Site and surrounding area available on Region of Waterloo's GIS Locator website for the years 2000, 2010, 2012, 2020, 2022 and 2024. These photographs were suitable for use in this Phase One ESA based on the quality of the aerial imagery available for review. The earliest available aerial photograph identified for the Site was dated 1930. A summary of the review of aerial photographs and aerial images is provided below:

1930 Aerial Photograph (Scale 1:10,000): Review of the 1930 aerial photograph indicates that most of the Site was utilized for agricultural purposes at the time, and a residential dwelling was observed on the northeastern portion of the Site at 118 Northside Drive. A forested area was observed to the north of the Site. A railway spur was located in a north-south orientation adjacent to the west of the Property. The surrounding lands were utilized for agricultural purposes with residential dwellings present on the properties.

1955 Aerial Photograph (Scale 1:10,000): Review of the 1955 aerial photograph indicates that the conditions on the Site were similar to those observed on the 1930 aerial photograph. King Street North had been constructed east of the Site. The properties adjacent to the northeast and further to the southeast had been developed or were under development for residential purposes. 80 Northside Drive, located approximately 90 m east of the Site (current Frey's Hatchery), was under development for industrial purposes. The conditions on the remainder of the surrounding lands were similar to those observed in the 1930 aerial photograph.

1964 Aerial Photograph (Scale 1:10,000): Review of the 1964 aerial photograph indicates that the residential dwelling at 110 Northside Drive, located on the eastern portion of the Site, had been constructed. A small orchard was observed on the western portion of the 118 Northside Drive property. Conditions on the remainder of the Site were similar to those observed on the 1955 aerial photograph. The properties located adjacent to the northeast of the Site

had undergone increased development for residential purposes. A cemetery was observed at 48 Hawkesville Road, located to the east of the Site. The conditions on the remainder of the surrounding lands were similar to those observed in the 1955 aerial photograph.

1971 Aerial Photograph (Scale 1:10,000): Review of the 1971 aerial photograph indicates that conditions at the Site and on the surrounding lands were similar to those observed in the 1964 aerial photograph.

1980 Aerial Photograph (Scale 1:10,000): Review of the 1980 aerial photograph indicates that a shed was present on the 110 Northside Drive property, west of the residential dwelling. Conditions on the remainder of the Site were similar to those observed in the 1971 aerial photograph. 1645 King Street North, located to the northeast of the Site (historical Jano's, Rudy Painting and Wallpapering), now contained a building west of residential dwelling on the property. The properties to the southeast of the Site, south of Hawkesville Road, had undergone increased development for residential purposes. The conditions on the remainder of the surrounding lands were similar to those observed in the 1971 aerial photograph.

1990 Aerial Photograph (Scale 1:10,000): Review of the 1990 aerial photograph indicates that conditions at the Site were similar to those observed in the 1980 aerial photograph. Two buildings of similar size and configuration as the current water pumping station located at 74 Northside Drive, located approximately 92 m east of the Site, were observed. The conditions on the remainder of the surrounding lands were similar to those observed in the 1980 aerial photograph.

2000 Aerial Image (variable scale): Review of the 2000 aerial photograph indicates that conditions at the Site were similar to those observed in the 1990 aerial photograph. A building of similar size and configuration as the current church at 48 Hawkesville Road, located adjacent to the east of the Site, was undergoing construction. The conditions on the remainder of the surrounding lands were similar to those observed in the 1990 aerial photograph.

2006 Aerial Photograph (Scale 1:10,000): Review of the 2006 aerial photograph indicates that conditions at the Site and were similar to those observed on the 2000 aerial image. The church located at 48 Hawkesville Road, adjacent to the southeast of the Site, had completed construction and contained an asphalt parking lot surrounding the building. The conditions on the remainder of the surrounding lands were similar to those observed in the 2000 aerial image.

2010 Aerial Image (variable scale): Review of the 2010 aerial image indicates that a shed with exterior storage of several recreational boats was present on the central portion of the 118 Northside Drive property. The remainder of the conditions at the Site were similar to those observed on the 2006 aerial photograph. The conditions on the remainder of the surrounding lands were similar to those observed in the 2006 aerial photograph.

2012 Aerial Image (variable scale): Review of the 2012 aerial image indicates that conditions at the Site were similar to those observed on the 2010 aerial image. A roof awning for a building on the eastern portion of the 80 Northside Drive property, located approximately 92 m east of the Site, had been constructed. Based on GHD's observations during the Site inspection (see Section 4.1.1), two fuel ASTs were observed under the roof awning, which were identified as a PCA. The fuel ASTs were likely installed at that location at the time the roof awning was constructed. The conditions on the remainder of the surrounding lands were similar to those observed in the 2010 aerial image.

2015 Aerial Photograph (Scale 1:10,000): Review of the 2015 aerial image indicates that conditions at the Site and on surrounding lands were similar to those observed on the 2012 aerial image.

2020 Aerial Image (variable scale): Review of the 2020 aerial image indicates that conditions at the Site and on surrounding lands were similar to those observed on the 2015 aerial image.

2022 Aerial Image (variable scale): Review of the 2022 aerial image indicates that conditions at the Site and on surrounding lands were similar to those observed on the 2020 aerial image.

2022 Aerial Photograph (Scale 1:10,000): Review of the 2022 aerial photograph indicates that conditions at the Site and on surrounding lands were similar to those observed on the 2020 aerial image.

2024 Aerial Image (variable scale): Review of the 2024 aerial image indicates that conditions at the Site and on surrounding lands were similar to those observed on the 2022 aerial image.

A copy of the aerial photographs obtained from ERIS is provided in Appendix H.

4.3.2 Topography, Hydrology, Geology

The elevation of the Site ranges from approximately 345 m above mean sea level (mAMSL) to 350 mAMSL[1]. Local and regional topography slopes steadily downward to the south from approximately 350 to 325 mAMSL towards the Conestogo River, which is located approximately 350 m south of the Site. Previous investigations conducted at the Site indicate that shallow groundwater flows in a northerly direction on the northern portion of the Site towards the off-Site wetland, and in a southwesterly direction on the southern portion of the Site towards the Conestogo River.

The Site is located in the broad physiographic region known as the Till Plains (Drumlinized)[2]. A review of published quaternary geologic mapping for the area of the Site indicates that the overburden consists predominantly of the Tavistock Till comprised of clayey silt till on the southwestern portion of the Site, and predominantly of outwash sand on the remainder of the Site[3]. Beneath the overburden deposits is bedrock consisting of limestone, dolostone, shale, sandstone and gypsum salt of the Salina Formation[4]. The thickness of the overburden deposits varies due to surficial topographic relief but is approximately 50 m in the vicinity of the Site when comparing overburden and bedrock topography in the area[5].

Stratigraphy encountered on the Site during previous investigations generally consisted of surficial topsoil underlain by sand, a clay/silt mixture, and a till unit with varying fractions of clay and silt.

Topographic information for the Phase One ESA study area is included on Figure 1. A discussion of water bodies located within the vicinity of the Site is provided in Section 4.3.4. Well records identified within the Phase One ESA study area are discussed in Section 4.3.5.

4.3.3 Fill Materials

GHD did not observe any visual evidence of fill materials at the Site at the time of the Site inspection. The Site representatives were not aware of the presence of any fill materials at the Site, or of fill materials being imported to the Site in the past.

1 Natural Resources Canada [map]. "The Atlas of Canada - Toporama", governed by version 2.3 of the Open Government License – Canada. February 5, 2025. http://atlas.gc.ca/toporama/en/index.html
2 Chapman, L. J., and D. F., Putnam (1984), "The Physiography of Southern Ontario", Ontario Geological Survey.
3 Karrow, P.F. 1993. Quaternary geology, Conestogo area; Ontario Geological Survey, Map 2558, scale 1:50 000.
4 "Bedrock Geology of Ontario" [map]. Scale 1:250,000. OGS Earth Geoscience Data [computer files]. Sudbury, Ontario: Ontario Geological Survey & Ministry of Northern Development and Mines, 2011.
5 Thomas, J., Holden, K.M. and Karrow, P.F. 1993. Bedrock topography, Conestogo area, southern Ontario; Ontario Geological Survey, Preliminary Map P.3211, Scale 1:50 000.

4.3.4 Water Bodies, Areas of Natural Significance and Groundwater Information

Water Bodies

A natural watercourse (stream) making up part of the Northside Drive Municipal Drain is present on the lands to the north of the Site, connecting to the Municipal Drain Number 11 northeast of the Site. No water bodies are located on the Site.

The Conestoga River is located approximately 300 m south of the Site. The Conestoga River is a tributary of the Grand River, which is located approximately 5.5 kilometres (km) east of the Site.

Areas of Natural Significance

In accordance with O. Reg. 153/04, an "area of natural significance" is defined as any of the following:

1. An area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.
2. An area of natural and scientific interest (life science or earth science) identified by the Ministry of Natural Resources (MNR) as having provincial significance.
3. A wetland identified by the MNR as having provincial significance.
4. An area designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
5. An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. An area identified by the MNR as significant habitat of a threatened or endangered species.
7. An area which is habitat of a species that is classified under Section 7 of the Endangered Species Act, 2007 as a threatened or endangered species.
8. Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.
9. An area set apart as a wilderness area under the Wilderness Areas Act.

A summary of GHD's review is provided below:

1. The Site does not contain, and does not include land that is within 30 m of, an area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.
2. The Site is not, and does not include land that is within 30 m of, an area of natural and scientific interest (life science or earth science) identified by the MNR as having provincial significance. GHD reviewed the MNR's – "Natural Heritage Information Centre" database to identify areas registered as Areas of Natural or Scientific Interest (ANSI). An Earth Science ANSI named the St. Jacobs Hill was identified approximately 800 m southeast of the Site.
3. The Site does not contain, and does not include land that is within 30 m of, a wetland identified by the MNR as having provincial significance. A non-provincially significant wetland, the Upper Conestogo Creek Wetland Complex, was identified on the lands to the north of the Site.
4. GHD reviewed Woolwich Township's document entitled "Township of Woolwich Official Plan", adopted by the Council of the Township of Woolwich on September 21, 2021, and approved by the Region of Waterloo on

June 22, 2022 (Municipal Official Plan). GHD also reviewed Region of Waterloo's document entitled "Regional Official Plan", as approved, with modifications by the Ontario Municipal Board on June 18, 2015 (Regional Official Plan). Lands adjacent to the north of the Site contain a woodlot and wetland identified as a core environmental feature in both the Municipal and the Regional Official Plans.

5. The Site does not contain, and does not include land that is within 30 m of, an area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. According to the Committee on the Status of Endangered Wildlife in Canada (COSWIC), Species at Risk in Ontario (SARO), and MNR, the following species were listed as threatened and/or endangered which may be present within the Phase One ESA study area:
    - Wood Thrush
    - Wavy-rayed Lampmussel
    - Red-headed Woodpecker
    - Silver Shiner
    - Butternut
7. Based on the review of information pertaining to the habitats of aforementioned threatened and/or endangered species, the adjacent lands to the north of the Site containing woodland and wetland may be conducive to the habitat of Wood Thrush, Red-headed Woodpecker and Butternut, which are classified under Section 7 of the Endangered Species Act, 2007 as threatened or endangered species.
8. The Site does not contain, and does not include land that is within 30 m of, an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.
9. The Site does not contain, and does not include land that is within 30 m of, an area set apart as a wilderness area under the Wilderness Areas Act.

Based on the above information, and the definition of an area of natural significance provided in O. Reg. 153/04, the lands to the north of the Site, containing the woodland and the wetland, may be an area of natural significance.

Groundwater Information

The Site and the properties located within the Phase One ESA study area are serviced by the Woolwich North distribution system, which obtains its raw water supply from groundwater wells. Based on GHD's review of the Regional Official Plan, the Site is not located within Wellhead Protection Sensitivity Area (WSPA). The Site is located within the Grand River Conservation Authority Tier 2 Significant Groundwater Recharge Area (SGRA); however, the Site does not contain any wells that supply water used for human consumption or any agricultural use.

The MECP Water Well Information System (WWIS) database identified records associated with nine domestic water supply wells and two municipal supply wells located within the Phase One ESA study area. The groundwater table within the water supply wells was encountered at depths ranging between approximately 44.8 and 57.9 mBGS. Based on previous environmental investigations completed at the Site, the shallow groundwater table was encountered at depths ranging between approximately 0.28 and 4.07 mBGS.

4.3.5 Well Records

A search of the MECP Water Well Information System (WWIS) database was conducted as a component of the environmental databases search outlined in Section 4.2.2. Seven records were identified in the WWIS database to be

associated with the Site. Four of the seven records are associated with the monitoring wells installed at the Site by CVD in 2021, as discussed in Section 4.1.5 and shown on Figures 2 and 3. Review of the well records indicated that stratigraphy encountered on the east-central portion of the Site generally consisted of surficial topsoil underlain by sand or clay with varying amounts of silt to the maximum depth of the investigation of 4.6 mBGS. Bedrock was not encountered during the investigations.

Twenty records were identified in the WWIS database to be associated with the wells installed within the Phase One study area. The records were associated with five monitoring wells, nine domestic water supply wells, two municipal supply wells and four abandoned wells. The locations of the wells are shown on a figure provided within the environmental databases search report, which is included in Appendix F. Bedrock was encountered at depths ranging between approximately 42.1 to 50.9 mBGS.

4.3.6 Site Operating Records

No Site operating records were identified for the Site.

5. Interviews

As part of the Phase One ESA, GHD interviewed the following Site representatives:

Property Address	Site Contact	Position	Years Familiar With the Site
Part of Lot 37 German Company Tract	Mike Gilles	Previous Owner	21 years (since 2004)
Part of Lot 37 German Company Tract	Edwin Shantz	Current Lessee (Farmer)	12 years (since 2013)
52 Hawkesville Road	Stuart Martin	Previous Owner	47 years (since 1978)
118 Northside Drive	Richard Frede	Previous Owner	31 years (since 1994)
110 Northside Drive	Richard Frede	Previous Owner	6 years (since 2019)

The above-listed persons were identified to be the most knowledgeable regarding the historical and current use of the Property.

The interviews completed with the Site representatives were focused on the historical and current use of the Property, and the topics listed in Sections 13 and 14 of Schedule D of O. Reg. 153/04. Relevant information provided to GHD by those interviewed has been summarized in the following sections.

6. Site Reconnaissance

6.1 General Requirements

Ms. Laura Bender of GHD completed a Site inspection of the Property on November 29, 2024, between 2:30 PM and 4:45 PM. Weather conditions during the Site inspection were overcast with an ambient air temperature of approximately -3°C.

The Site reconnaissance included a walk-through of the Property and buildings to confirm the current Site conditions and identify any current land uses, which may have or may cause actual and/or potential environmental impacts to the Site. Adjoining and neighbouring properties were observed from the Site and public access ways.

Photographs of the Site are included in Appendix I.

6.2 Specific Observations at Phase One ESA Property

6.2.1 Building and Property

The Site consists of four properties. The portion of the Site located on Part of Lot 37 German Company Tract is approximately 4.61 hectares (11.39 acres) in size. The property contains an agricultural field.

The portion of the Site located at 52 Hawkesville Road is approximately 9.67 hectares (23.89 acres) in size and contains agricultural fields. Access to this portion of the Property is provided from Hawkesville Road.

The portion of the Site located at 110 Northside Drive is approximately 0.2 hectares (0.49 acres) in size and contains a two-storey residential dwelling located on the eastern portion of the property. The Site representative indicated that the residential dwelling has a footprint of approximately 223 square m (2,400 square feet) and contains a basement and a single-car garage. Based on discussions with the Site representative and review of the aerial photographs, the residential dwelling was built sometime between 1955 and 1964. The property also contains a small, shed west of the residential dwelling contains miscellaneous sports equipment and yard tools. Access to this portion of the Property is provided from a gravel driveway from Northside Drive.

The portion of the Site located at 118 Northside Drive is approximately 0.76 hectares (1.88 acres) in size and contains a two-storey residential dwelling located on the eastern portion of the property. The Site representative indicated that the residential dwelling has a footprint of approximately 111 square m (1,200 square feet) and contains a basement with a trap door for exterior access. Based on discussions with the Site representative and review of the aerial photographs, the residential dwelling was built prior to 1930. The property also contains two small sheds on the north-central portion of the property which contain miscellaneous sports equipment and yard tools. Two recreational contained fire pits are present on the southwestern and central portions of the property. The western portion of the Site consists of treed and grassed area. Access to this portion of the Property is provided from an asphalt driveway from Northside Drive.

A municipal drain (Northside Drive Municipal Drain) is present beginning at 74 Northside Drive (St. Jacobs Water Pumping Station) and passes northerly through the rear of the residential lots, including the 118 Northside Drive portion of the Site, to 122 Northside Drive. The drain is located approximately 5 m east of the property lines, and consists of a 250-300 millimetre (mm) diameter high density polyethylene closed pipe. Catch basins are present at the rear of the residential lots that connect to the municipal drain. The municipal drain turns into an open drain at the end of the wetland located north of the Site, which flows towards a natural watercourse that discharges after passing beneath Arthur Street to Municipal Drain Number 11. The components of the municipal drain are shown on Figures 2 and 3.

No water bodies are located on the Site.

6.2.2 Current Site Operations

The southern portion of Part of Lot 37 German Company Tract property and the 52 Hawkesville Road property are both currently leased to farmers for agricultural purposes. The Site representatives indicated that agricultural chemicals are currently used on the Site and were used historically. Both Site representatives indicated that all

agricultural chemicals were stored off-Site prior to use, and that the farmers provide their own equipment, which is maintained and stored off-Site. Information regarding historic and current application rates for agricultural chemicals was not available. If the agricultural chemicals are applied in accordance with manufacturer recommendations, residuals remaining in Site soils would be expected to be similar to other agricultural properties. No information was available to determine whether residual concentrations exceeded government use or exposure criteria. The current and historical use of agricultural chemicals at the Site is identified as a PCA (#40 – Pesticides [including Herbicides, Fungicides and Anti-Fouling Agents] Manufacturing, Processing, Bulk Storage and Large-Scale Applications) in accordance with O. Reg. 153/04, and most of the Site was identified as **APEC #2**.

The 110 and 118 Northside Drive properties are both utilized for residential purposes and are rented to tenants. The western portion of the 118 Northside Drive property is a vacant grassed/treed area.

6.2.3 Historical Site Operations

The 118 and 110 Northside Drive properties were historically utilized for residential purposes, with the residential dwellings constructed prior to 1930 and between 1955 and 1964, respectively. Based on discussions with the Site representative and review of aerial photographs, the western portion of the 118 Northside Drive property historically contained an apple orchard. The Site representative could not confirm if any agricultural chemicals were used in the historical apple orchard, and therefore the area of the orchard on the western portion of the 118 Northside Drive property was included as a part of **APEC #2**.

6.2.4 Utility Services

Electricity is supplied to the 118 and 110 Northside Drive properties by Enova Power Corp., natural gas is supplied to the properties by Enbridge Gas, and the properties are serviced with municipal potable water and municipal sanitary sewer services. The residential dwellings are heated using natural gas furnaces. The Site representative reported that to the best of his knowledge, the residential dwellings had not been heated with oil in the past. No back-up generators or transformers are operated at the Site. The Site representative was not aware of the current or past presence of any water supply wells or septic systems at the Site. GHD did not observe visual evidence of any active or abandoned water supply wells, or septic systems at the Site during the Site inspection.

A municipal drain (Northside Drive Municipal Drain) is present beginning at 74 Northside Drive (St. Jacobs Water Pumping Station) and passes northerly through the rear of the residential lots, including the 118 Northside Drive portion of the Site, to 122 Northside Drive. The drain is located approximately 5 m east of the property lines, and consists of a 250-300 mm diameter high density polyethylene closed pipe. Catch basins are present at the rear of the residential lots that connect to the municipal drain. The municipal drain turns into an open drain at the end of the wetland which flows towards a natural watercourse that discharges after passing beneath Arthur Street to Municipal Drain Number 11.

The remainder of the Site is not currently supplied by any utility services.

6.2.5 Underground Storage Tanks (USTs)

According to the Site representatives, there are no active or inactive USTs located on the Site; and to the best of their knowledge, no USTs have historically been owned or operated at the Site. At the time of the Site inspection, no physical evidence suggesting the presence of any USTs (e.g., vent pipes, fill pipes, etc.) was observed by GHD.

6.2.6 Aboveground Storage Tanks (ASTs)

Based on discussions with Site representatives, no ASTs are currently operated at the Site; and to the best of their knowledge, no ASTs have been historically operated at the Site. No evidence of current or past operation of an AST at the Site was observed by GHD at the time of the Site inspection.

6.2.7 Floor Drains, Pits, and Sumps

A sump pump was observed by GHD in the basement of the 118 Northside Drive residential dwelling. Two drains were observed in the basement of 110 Northside Drive residential dwelling, one in the shower and one on the floor. The Site representative believed that the drains discharged directly to the ground beneath the foundation. No chemical storage, staining or evidence of releases was observed in the vicinity of the floor drains or the sump at the time of the Site inspection.

Based on observations made by GHD during the Site inspection, no other floor drains, pits, or sumps are located at the Site. According to the Site representatives, no other floor drains, pits, or sumps have been operated at the Site in the past.

6.2.8 Wastewater/Sewers

Based on discussions with the Site representatives and GHD's observations, wastewater generated at the Site is limited to domestic wastewater from the sinks and washrooms in the residential dwellings located at 110 and 118 Northside Drive. As noted in Section 6.2.4, wastewater generated from the residential dwellings is discharged to the municipal sanitary sewer system. No other wastewater is currently or was previously generated at the Site.

6.2.9 Stormwater/Surface Water

Stormwater generated on the Site typically infiltrates the ground or is directed by surface grading towards the wetland located to the north of the Site, or towards Hawkesville Road for the southern portion of the Site.

The Site representatives were not aware of any stormwater quality concerns associated with the Site. No sources of adverse impact to stormwater quality were observed by GHD during the Site inspection. At the time of the Site inspection, no visual evidence of impact from surface water run-on from the adjacent properties was observed by GHD.

6.3 Enhanced Investigation Property

A Phase One ESA property is considered to be an Enhanced Investigation property if it is currently used or has ever been used in whole or in part for industrial use, or commercial uses including a garage, a bulk liquid dispensing facility such as a gasoline station, or for the operation of dry cleaning equipment. As the Site has not been used for industrial or commercial purposes, the Enhanced Investigation is not required. However, all reasonable inquiries were made to obtain and review the following material with respect to the former use of the Site for completeness:

All reasonable inquiries were made to obtain and review the following material with respect to the former use:

– Regulatory permits and records related to areas of potential environmental concern (documented in Section 4.2.1)
– Material safety data sheets (not available)
– Underground utility drawings (not available)

– Inventories of chemicals, chemical usage and chemical storage areas (documented in Sections 6.3.3 and 6.3.4)
– Inventory of USTs and ASTs (documented in Sections 6.2.5 and 6.2.6)
– Environmental monitoring data (documented in Section 4.1.5)
– Waste management records (documented in Section 6.3.4)
– Process, production, and maintenance documents (not available)
– Records of spills and discharges of contaminants (documented in Section 6.3.5)
– Emergency response and contingency plans (not available)
– Environmental audit reports (not available)
– Site plans (not available)

The following sections provide observations regarding designated substances, processing and manufacturing operations, products, by-products and wastes, raw materials handling and other potential environmental concerns not detailed in previous sections.

6.3.1 Polychlorinated Biphenyls (PCBs)

The Site representatives reported that no PCB-containing equipment is currently or has historically been used, stored, or handled at the Site. At the time of the Site inspection, GHD did not observe any potential PCB-containing equipment at the Site with the exception of fluorescent light ballasts located in the basements of the residential dwellings at the 110 and 118 Northside Drive properties. Fluorescent light ballasts in the residential dwellings could contain small quantities of PCBs. However, the light ballasts were observed to be in good working condition and, even if PCB-containing, do not represent a significant environmental concern.

The Site representatives reported that no PCB Wastes are currently or were historically stored at the Site. No visual evidence of PCB Waste storage was observed by GHD at the time of the Site inspection.

6.3.2 Solid Waste/Recyclable Materials

Based on discussions with the Site representatives and GHD observations, solid waste generation at the Site is currently limited to small quantities of general refuse and recyclables from the residential dwellings at the 110 and 118 Northside Drive properties, which is picked up by municipal waste pick-up services.

The Site representatives stated that, to the best of their knowledge, no solid waste has been disposed of on the Site. At the time of the Site inspection, no visual evidence of on-Site waste disposal was observed by GHD.

6.3.3 Chemical and Raw Material Use and Storage

Based on discussions with the Site representatives and GHD observations, chemicals currently used and stored at the Site are limited to household sanitation products associated within the 118 and 110 Northside Drive residential dwellings. Household sanitation products are stored in retail-sized containers at their points of use.

As discussed previously in Section 6.2.2, agricultural chemicals are currently and were historically used by the farmers leasing the land on the southern portion of Part of Lot 37 German Company Tract and the 52 Hawkesville Road portions of the Site. The Site representatives indicated that the farmers provide all necessary agricultural chemicals, which are stored off-Site prior to use. Information regarding historic and current application rates was not available. If the chemicals are applied in accordance with manufacturer recommendations, residuals remaining in Site soils would be expected to be similar to other agricultural properties. No information was available to determine whether residual

concentrations exceeded government use or exposure criteria. Additionally, as discussed previously in Section 6.2.3, the western portion of the 118 Northside Drive property historically contained an apple orchard. The Site representative could not confirm if any agricultural chemicals were used in the historical apple orchard. As such, most of the Site was identified as **APEC #2**.

At the time of the Site inspection, no visual evidence of significant spills or releases was observed by GHD. The Site representatives reported that, to the best of their knowledge, no reportable spills or releases of any chemical products used or stored at the Site have occurred.

6.3.4 Subject Waste/Hazardous Waste

The Site is not currently registered with the MECP as a generator of Subject Waste. The Site representatives reported that, to the best of their knowledge, no Subject Wastes are currently or have historically been generated, stored, or disposed of on Site. At the time of the Site inspection, no visual evidence of on-Site Subject Waste disposal, generation or storage activities was observed by GHD.

6.3.5 Chemical Spills/Releases

The Site representatives reported that, to the best of their knowledge, no reportable chemical spill/release incidents have occurred at the Site. At the time of the Site inspection, GHD did not observe any visual evidence of significant chemical spills or releases at the Site.

6.3.6 Air Emissions

Based on discussions with Site representatives and GHD observations, air emission sources currently operated at the Site are limited to the heating equipment associated with the residential dwellings on the 110 and 118 Northside Drive properties, including the wood burning stove in the 110 Northside Drive residential dwelling. A wood burning stove is also present within the shed located on the north-central portion of the 118 Northside Drive property. The Site representative indicated that a wood burning stove was also historically operated at the 118 Northside Drive residential dwelling that has since been removed.

No evidence of odours or particulate accumulation associated with the historical operation of any on-Site air emission sources was observed by GHD.

6.3.7 Ionizing Radiation

The Site representatives reported that no commercial sources of ionizing radiation (e.g., fill level controllers) have been located at the Site. At the time of the Site inspection, no sources of ionizing radiation were observed by GHD at the Site. The Site representatives also reported that, to their knowledge, a radon gas survey has not been conducted at the Site.

6.4 Written Description of Investigation

The Phase One ESA included a records review, interviews with Site representatives, a Site reconnaissance, and a review and evaluation of the information obtained during the Phase One ESA. The Site reconnaissance included a walk-through of the Property to confirm the current Site conditions and identify any current land uses, which may have or may cause actual and/or potential environmental impacts to the Site. Adjoining and neighbouring properties were observed from the Site and public access ways.

The findings from the assessment carried out pursuant to Sections 13 and 14 of Schedule D of O. Reg. 153/04, as amended, were previously discussed in Section 6.

7. Review and Evaluation of Information

7.1 Current and Past Uses

The Site consists of a land parcel located north of Hawkesville Road and west of Northside Drive in St. Jacobs, Ontario. The land parcel includes four properties: an agricultural property located at 52 Hawkesville Road, two residential properties located at 110 Northside Drive and 118 Northside Drive, and a parcel of agricultural land located within a property legally described as Part of Lot 37 German Company Tract. The legal description of the Site, as reported to GHD, is firstly Lots 38 and 39 on Registrar's Compiled Plan (RCP) 1547; and secondly Part of Lot 37 German Company Tract as in 1202515 east of Canadian National Railway (CNR), and 988702 (firstly lying east of CNR) except Registered Plan 58R-10739 and Part 1 of WDR261, Township of Woolwich, Ontario [Property Identification Number (PIN): 22234-0382(LT)].

A summary of the current and past uses of the Site is provided below:

110 Northside Drive, St. Jacobs, Ontario

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
Prior to 1798	The Crown	Assumed vacant	Agricultural or Other Use	None
1798 to 1807	William Wallace	Assumed to be an agricultural field	Agricultural or Other Use	None
1807 to 1832	Jacob Erb	Assumed to be an agricultural field	Agricultural or Other Use	None
1832 to 1837	Peter Eby	Assumed to be an agricultural field	Agricultural or Other Use	None
1837 to 1859	Joseph Shantz	Assumed to be an agricultural field	Agricultural or Other Use	None
1859 to 1887	Jacob Weber	Assumed to be an agricultural field	Agricultural or Other Use	None
1887 to 1921	Henry Wiebergall	Assumed to be an agricultural field	Agricultural or Other Use	None
1921 to 1951	Harry Garner	Agricultural cropland	Agricultural or Other Use	The aerial photograph dated 1930 indicates that the property was utilized for agricultural purposes (cropland).
1951 to 1958	Harry Ernest Garner	Agricultural cropland	Agricultural or Other Use	The aerial photograph dated 1955 indicates that the property was utilized for agricultural purposes (cropland).
1958 to 1970	Milfred Snyder	Residential	Residential Use	The aerial photograph dated 1964 indicates that a residential dwelling had been constructed on the eastern portion of the property.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1970 to 1985	Director, The Veterans' Land Act	Residential	Residential Use	The aerial photographs dated 1971 and 1980 indicate that a residential dwelling was present on the eastern portion of the property.
1985 to 2013	Alfred Bingham Harris	Residential	Residential Use	The aerial photographs/images dated 1990, 2000, 2006 and 2010 indicate that a residential dwelling was present on the eastern portion of the property.
2013 to 2019	Georgina Alberta Harris	Residential	Residential Use	The aerial photograph dated 2015 indicates that a residential dwelling was present on the eastern portion of the property.
2019 to 2024	1553743 Ontario Limited	Residential	Residential Use	The aerial photograph/images dated 2020, 2022 and 2024 indicate that a residential dwelling was present on the eastern portion of the property.
2024 to Present	Schlegel Urban Developments	Residential	Residential Use	Based on GHD's observations, a residential dwelling was present on the eastern portion of the property.

118 Northside Drive, St. Jacobs, Ontario

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
Prior to 1798	The Crown	Assumed vacant	Agricultural or Other Use	None
1798 to 1807	William Wallace	Assumed to be an agricultural field	Agricultural or Other Use	None
1807 to 1832	Jacob Erb	Assumed to be an agricultural field	Agricultural or Other Use	None
1832 to 1837	Peter Eby	Assumed to be an agricultural field	Agricultural or Other Use	None
1837 to 1859	Joseph Shantz	Assumed to be an agricultural field	Agricultural or Other Use	None
1859 to 1887	Jacob Weber	Assumed to be an agricultural field	Agricultural or Other Use	None
1887 to 1921	Henry Wiebergall	Assumed to be an agricultural field	Agricultural or Other Use	None
1921 to 1951	Harry Garner	Residential	Residential Use	The aerial photograph dated 1930 indicates that a residential dwelling was present on the eastern portion of the property.
1951 to 1984	Harry Ernest Garner	Residential	Residential Use	The aerial photographs dated 1955, 1964, 1971 and 1980 indicate that a residential dwelling was present on the eastern portion of the property. A small apple orchard was also first observed on the western portion of the property in the 1964 aerial photograph.

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1984 to 1994	Richard and Derry Frede	Residential	Residential Use	The aerial photograph dated 1990 indicates that a residential dwelling was present on the eastern portion of the property and a small apple orchard was present on the western portion of the property.
1994 to 2024	Richard Frede	Residential	Residential Use	The aerial photographs/images dated 2000, 2006, 2010, 2015, 2020, 2022 and 2024 indicates that a residential dwelling was present on the eastern portion of the property and a small apple orchard was present on the western portion of the property.
2024 to Present	Schlegel Urban Developments	Residential	Residential Use	Based on GHD's observations, a residential dwelling was present on the eastern portion of the property and some apple trees were present on the western portion of the property.

Part of Lot 37 German Company Tract, St. Jacobs, Ontario

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
Prior to 1798	The Crown	Assumed agricultural	Agricultural or Other Use	None
1798 to 1807	William Wallace	Assumed agricultural	Agricultural or Other Use	None
1807 to 1831	Jacob Erb	Assumed agricultural	Agricultural or Other Use	None
1831 to 1839	David Martin	Assumed agricultural	Agricultural or Other Use	None
1839 to 1903	Peter Martin	Assumed agricultural	Agricultural or Other Use	None
1903 to 1933	Tilman M. Martin	Agricultural	Agricultural or Other Use	The aerial photograph dated 1930 indicates that the southern portion of the property was utilized for agricultural purposes (cropland).
1933 to 1948	Daniel S. Shantz	Agricultural	Agricultural or Other Use	None
1948 to 1974	Ervin Shantz and Ester Shantz	Agricultural	Agricultural or Other Use	The aerial photographs dated 1955, 1964 and 1971 indicate that the southern portion of the property was utilized for agricultural purposes (cropland).
1974 to 1994	Daniel Shantz	Agricultural	Agricultural or Other Use	The aerial photographs dated 1980 and 1990 indicate that the southern portion of the property was utilized for agricultural purposes (cropland).
1994 to 1996	Salema Shantz	Agricultural	Agricultural or Other Use	None

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1996 to 2004	Daniel Shantz and Salema Shantz	Agricultural	Agricultural or Other Use	The aerial image dated 2000 indicates that the southern portion of the property was utilized for agricultural purposes (cropland).
2004 to 2004	Salema Shantz	Agricultural	Agricultural or Other Use	None
2004 to 2024	1604964 Ontario Inc.	Agricultural	Agricultural or Other Use	The aerial photographs/images dated 2006, 2010, 2015, 2022 and 2024 indicate that the southern portion of the property was utilized for agricultural purposes (cropland).
2024 to Present	Schlegel Urban Developments	Agricultural	Agricultural or Other Use	Based on GHD's observations, the southern portion of the property was utilized for agricultural purposes (cropland).

52 Hawkesville Road, St. Jacobs, Ontario

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
Prior to 1798	The Crown	Assumed vacant	Agricultural or Other Use	None
1798 to 1807	William Wallace	Assumed to be an agricultural field	Agricultural or Other Use	None
1807 to 1831	Jacob Erb	Assumed to be an agricultural field	Agricultural or Other Use	None
1831 to 1838	David Martin	Assumed to be an agricultural field	Agricultural or Other Use	None
1838 to 1879	Anthony Reitzel	Assumed to be an agricultural field	Agricultural or Other Use	None
1879 to 1879	Charles Gies	Assumed to be an agricultural field	Agricultural or Other Use	None
1879 to 1921	Leon Reutzel	Assumed to be an agricultural field	Agricultural or Other Use	None
1921 to 1922	Henry Doerbacker	Assumed to be an agricultural field	Agricultural or Other Use	None
1922 to 1951	Simon M. Martin	Agricultural cropland	Agricultural or Other Use	The aerial photograph dated 1930 indicates that the property was utilized for agricultural purposes (cropland).
1951 to 1968	Cleason Clemmer	Agricultural cropland	Agricultural or Other Use	The aerial photographs dated 1955 and 1964 indicate that the property was utilized for agricultural purposes (cropland).
1968 to 1968	Noah B. Martin	Assumed agricultural cropland	Agricultural or Other Use	None

Year	Name of Owner	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
1968 to 1989	Aveline Farms Limited	Agricultural cropland	Agricultural or Other Use	The aerial photographs dated 1971 and 1980 indicate that the property was utilized for agricultural purposes (cropland).
1989 to 2024	650207 Ontario Limited	Agricultural cropland	Agricultural or Other Use	The aerial photographs/images dated 1990, 2000, 2006, 2010, 2015, 2020, 2022 and 2024 indicate that the property was utilized for agricultural purposes (cropland).
2024 to Present	Schlegel Urban Developments	Agricultural cropland	Agricultural or Other Use	Based on GHD's observations, the property was utilized for agricultural purposes (cropland).

7.2 Potentially Contaminating Activity

PCAs, as defined in Schedule D of O. Reg. 153/04, that have been identified on, in, or under the Property, or located within the Phase One ESA study area (which includes all properties located wholly or partially within a 250-m radius from the Site boundary) identified in the Phase One ESA are summarized below:

Property Address or Location	PCA(s), in accordance with O. Reg. 153/04	Summary	PCA(s) contributing to an APEC at the Site (Yes/No/Rationale)
Waterloo Central Railway spur line located immediately to the west of the Site	#46 – Rail Yards, Tracks and Spurs	Presence of railway spur line within the Phase One ESA study area	No – The railway spur line appeared to consist of straight run tracks with no sidings that would have been used for storage of railway cars or off-loading of materials
80 Northside Drive (92 m east of the Site)	#28 – Gasoline and Associated Products Storage in Fixed Tanks	In 1991, a spill of 1,000 litres of gasoline from an AST to the ground was reported at the property. No documentation regarding the AST or spill remediation activities were available. During the Site inspection, GHD observed two exterior fuel ASTs on concrete pads at this property, which were likely installed in 2012. Because the spill occurred in 1991, it is unlikely that the spill was associated with these ASTs.	Yes – **APEC #1** related to the AST gasoline spill, because 80 Northside Drive is located hydraulically up-gradient of the Site, in the event that the gasoline spill at 80 Northside Drive migrated onto the Site.

Property Address or Location	PCA(s), in accordance with O. Reg. 153/04	Summary	PCA(s) contributing to an APEC at the Site (Yes/No/Rationale)
1549 King Street North (210 m east of the Site)	#27 – Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Current operation of an auto electric service shop at this property.	No – Due to the distance between the Site and 1549 King Street North, and that no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
3074 Sawmill Road (207 m east of the Site)	#34 – Metal Fabrication	Current operation of a fabricated metal parts manufacturing facility at this property.	No – Due to the distance between the Site and 3074 Sawmill Road, and that no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
1637 King Street North (110 m northwest of the Site)	#27 – Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles #34 – Metal Fabrication	Historical operation of a welding shop (tractor and vehicle maintenance) at this property from approximately 1964 to 2010.	No – Based on the distance between the 1637 King Street North property and the Site. Also based on the 1637 King Street North property being downgradient of the Site.
48 Hawkesville Road (adjacent to the east of the Site)	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	The property was listed as a limited vendor licence holder (retail vendor class) for registered pesticides.	No – The property was listed as a limited vendor licence holder; therefore any pesticides would be used in small quantities. Also, no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
1600 King Street North (80 m east of the Site)	#34 – Metal Fabrication #43 – Plastics (including Fibreglass) Manufacturing and Processing	Historical operation of an industrial moulds and fabricated metal and plastic parts manufacturing facility at this property.	No – The property is located hydraulically cross-gradient of the Site, and no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.

Property Address or Location	PCA(s), in accordance with O. Reg. 153/04	Summary	PCA(s) contributing to an APEC at the Site (Yes/No/Rationale)
1580 King Street North (150 m east of the Site)	#19 – Electronic and Computer Equipment Manufacturing.	Historical operation of a computer and peripheral equipment manufacturing facility at this property.	No – Due to the distance between the Site and 1580 King Street North, and the property is located hydraulically cross-gradient of the Site. Also, no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
7 Chris Court (210 m southeast of the Site)	#34 – Metal Fabrication	Historical operation of a metalworking machinery manufacturing facility at this property.	No – Due to the distance between the Site and 7 Chris Court, and the property is located hydraulically cross-gradient of the Site. Also, no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
1550 King Street North (150 m east of the Site)	#34 – Metal Fabrication	Historical operation of a metalworking machinery manufacturing facility at this property.	No – Due to the distance between the Site and 1550 King Street North, and the property is located hydraulically cross-gradient of the Site. Also, no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
1645 King Street North (190 m northeast of the Site)	#39 – Paints Manufacturing, Processing and Bulk Storage	Historical operation of a painting and wall covering contracting business at this property from approximately 1980 to 2020, which may have included bulk storage of paint.	No – Due to the distance between the Site and 1645 King Street North, and the property is located hydraulically downgradient of the Site. Also, no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
Western portion of the Site	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Current and historical use of agricultural chemicals on the agricultural fields of unknown application rates and residual concentrations.	Yes – **APEC #2**

PCAs identified at the Site and within the Phase One ESA study area are shown on Figure 3 and Figure 4, respectively.

7.3 Areas of Potential Environmental Concern (APEC)

A summary, description and rationale for the APEC identified by the Phase One ESA records review, interviews, and Site reconnaissance is provided below:

- **APEC #1 – Release of Fuel from Off-Site Aboveground Storage Tank (AST):** Based on review of the environmental databases search report, 1,000 litres of gasoline was spilled from a leaking fuel AST to the ground at a property located 90 metres (m) east of the Site (80 Northside Drive) in 1991. No documentation regarding the fuel AST or spill remediation activities were available. The operation of the fuel AST was identified as a PCA (#28 – Gasoline and Associated Products Storage in in Fixed Tanks) in accordance with O. Reg. 153/04. Because 80 Northside Drive is located hydraulically up-gradient of the Site, the gasoline spill at that property was identified as having the potential to contribute to an APEC at the Site. As a result, the southeastern portion of the Site was identified as **APEC #1**, in the event that the gasoline spilled at 80 Northside Drive in 1991 migrated onto the Site.
- **APEC #2 – Agricultural Chemicals:** Based on review of historical records and discussion with the Site representatives, the western portion of the Site has been utilized for agricultural purposes since at least 1930. The Site representatives indicated that agricultural chemicals are currently used on the Site by the farmers who lease the land and were used historically at the Site. Additionally, the western portion of the 118 Northside Drive property historically contained an apple orchard which may have involved the use of agricultural chemicals. Information regarding historic and current use or application rates for agricultural chemicals was not available. The current and historical use of agricultural chemicals at the Site is identified as a PCA (#40 – Pesticides [including Herbicides, Fungicides and Anti-Fouling Agents] Manufacturing, Processing, Bulk Storage and Large-Scale Applications) in accordance with O. Reg. 153/04, and most of the Site was identified as **APEC #2**.

A Table of APECs in a form approved by the Director is provided below.

Table of Areas of Potential Environmental Concern
Hawkesville Road and Northside Drive Development Lands
St. Jacobs, Ontario
[Refer to clause 16(2)(a), Schedule D, O. Reg. 153/04]

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #1 – Release of Fuel from Off-Site AST	– Southeastern portion of the Site, west of 80 Northside Drive.	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	BTEX, PAHs, PHCs	Groundwater
APEC #2 – Agricultural Chemicals	– Southern half of the Site and northwestern corner of the Site.	40. Pesticides (including Herbicides, Fungicides, and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site	OCs, Metals, As, Sb, Se, Hg, Cr (VI), CN^-, B-HWS	Soil

Notes:

1 Area of Potential Environmental Concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through:

(a) Identification of past or present uses on, in or under the phase one property.

(b) Identification of potentially contaminating activity.

2 Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area.

3 When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for Analytical Methods in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004", amended as of July 1, 2011, as specified below:

Acid base neutral extractable (ABNs)	Petroleum hydrocarbons (PHCs)	Benzene, toluene, ethylbenzene and xylenes (BTEX)	Boron, hot water soluble (B-HWS)	Mercury (Hg)
Chlorophenols (CPs)	Polychlorinated biphenyls (PCBs)	Calcium (Ca), magnesium (Mg)	Chloride (Cl^-)	Methyl Mercury
1,4-Dioxane	Polycyclic aromatic hydrocarbons (PAHs)	Metals	Cyanide (CN^-)	high pH
Dioxins/Furans, PCDDs/PCDFs	Trihalomethanes (THMs)	Arsenic (As), antimony (Sb), selenium (Se)	Electrical conductivity (EC)	low pH
Organochlorine pesticides (OCs)	Volatile organic compounds (VOCs)	Sodium (Na)	Chromium (hexavalent) [Cr (VI)]	Sodium adsorption ratio (SAR)

7.4 Phase One Conceptual Site Model

The following presents a Phase One Conceptual Site Model (CSM) of a land parcel located north of Hawkesville Road and west of Northside Drive in St. Jacobs, Ontario. The land parcel includes four properties: an agricultural property located at 52 Hawkesville Road, two residential properties located at 110 Northside Drive and 118 Northside Drive, and a parcel of agricultural land located within a property legally described as Part of Lot 37 German Company Tract. Collectively, these land parcels are referred to herein as the Site or Property. A Site Location Map and a Site Plan are provided on Figure 1 and Figure 2 respectively. Schlegel also owns the woodlot lands to the north of the Site, however, these lands are not included within the Site boundary for this Phase One ESA.

The Site is approximately 15.24 hectares (37.65 acres) in size and consists of four land parcels. The portion of the Site located on Part of Lot 37 German Company Tract is approximately 4.61 hectares (11.39 acres) in size and contains an agricultural field. The portion of the Site located at 52 Hawkesville Road is approximately 9.67 hectares (23.89 acres) in size and contains agricultural fields. Access to this portion of the Property is provided from Hawkesville Road. The portion of the Site located at 118 Northside Drive is approximately 0.76 hectares (1.88 acres) in size and contains a two-storey residential dwelling located on the eastern portion of the property. The Site representative indicated that the residential dwelling has a footprint of approximately 111 square metres (1,200 square feet) and was built prior to 1930. Access to this portion of the Property is provided from a gravel driveway from Northside Drive. The portion of the Site located at 110 Northside Drive is approximately 0.20 hectares (0.49 acres) in size and contains a two-storey residential dwelling located on the eastern portion of the property. The Site representative indicated that the residential dwelling has a footprint of approximately 223 square metres (2,400 square feet) and was built sometime between 1955 and 1964. Access to this portion of the Property is provided from an asphalt driveway from Northside Drive.

No information was available regarding the use of the Site between 1798 and 1930; however, it is assumed that the first developed use of the Property was residential and/or agricultural, based on the current Site use.

7.4.1 Physical Setting of the Phase One ESA Property

Topography, Hydrology, and Geology

The elevation of the Site ranges from approximately 345 m above mean sea level (mAMSL) to 350 mAMSL[6]. Local and regional topography slopes steadily downward to the south from approximately 350 to 325 mAMSL towards the Conestogo River, which is located approximately 350 m south of the Site. Previous investigations conducted at the Site indicate that shallow groundwater flows in a northerly direction on the northern portion of the Site towards the off-Site wetland, and in a southwesterly direction on the southern portion of the Site towards the Conestogo River.

The Site is located in the broad physiographic region known as the Till Plains (Drumlinized)[7]. A review of published quaternary geologic mapping for the area of the Site indicates that the overburden consists predominantly of the Tavistock Till comprised of clayey silt till on the southwestern portion of the Site, and predominantly of outwash sand on the remainder of the Site[8]. Beneath the overburden deposits is bedrock consisting of limestone, dolostone, shale, sandstone and gypsum salt of the Salina Formation[9]. The thickness of the overburden deposits varies due to surficial

[6] Natural Resources Canada [map]. "The Atlas of Canada - Toporama", governed by version 2.3 of the Open Government License – Canada. February 5, 2025. http://atlas.gc.ca/toporama/en/index.html

[7] Chapman, L. J., and D. F., Putnam (1984), "The Physiography of Southern Ontario", Ontario Geological Survey.

[8] Karrow, P.F. 1993. Quaternary geology, Conestogo area; Ontario Geological Survey, Map 2558, scale 1:50 000.

[9] "Bedrock Geology of Ontario" [map]. Scale 1:250,000. OGS Earth Geoscience Data [computer files]. Sudbury, Ontario: Ontario Geological Survey & Ministry of Northern Development and Mines, 2011.

topographic relief but is approximately 50 m in the vicinity of the Site when comparing overburden and bedrock topography in the area[10].

Based on previous environmental investigations completed at the Site, the stratigraphy encountered at the Site generally consisted of surficial sand material, underlain by till material with varying fractions of clay and silt. Bedrock was not encountered during previous environmental investigations completed at the Site.

Fill Materials

GHD did not observe any visual evidence of fill materials at the Site at the time of the Site inspection. The Site representatives were not aware of the presence of any fill materials at the Site, or of fill materials being imported to the Site in the past.

Water Bodies, Areas of Natural Significance and Groundwater Information

A natural watercourse (stream) making up part of the Northside Drive Municipal Drain is present on the lands to the north of the Site, connecting to the Municipal Drain Number 11 northeast of the Site. No water bodies are located on the Site.

The Conestoga River is located approximately 300 m south of the Site. The Conestoga River is a tributary of the Grand River, which is located approximately 5.5 kilometres (km) east of the Site.

The Site and the properties located within the Phase One ESA study area are serviced by the Woolwich North distribution system, which obtains its raw water supply from groundwater wells. Based on GHD's review of the Regional Official Plan, the Site is not located within Wellhead Protection Sensitivity Area (WSPA). The Site is located within the Grand River Conservation Authority Tier 2 Significant Groundwater Recharge Area (SGRA); however, the Site does not contain any wells that supply water used for human consumption or any agricultural use.

The MECP Water Well Information System (WWIS) database identified records associated with nine domestic water supply wells and two municipal supply wells located within the Phase One ESA study area. The groundwater table within the water supply wells was encountered at depths ranging between approximately 44.8 and 57.9 mBGS. Based on previous environmental investigations completed at the Site, the shallow groundwater table was encountered at depths ranging between approximately 0.28 and 4.07 mBGS.

7.4.2 Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs)

Potentially Contaminating Activities

Potentially contaminating activities (PCAs), as defined in O. Reg. 153/04, that have been identified on, in, or under the Property, or located within the Phase One ESA study area (which includes all properties located wholly or partially within a 250-m radius from the Site boundary) are summarized below:

[10] Thomas, J., Holden, K.M. and Karrow, P.F. 1993. Bedrock topography, Conestoga area, southern Ontario; Ontario Geological Survey, Preliminary Map P.3211, Scale 1:50 000.

Property Address or Location	PCA(s), in accordance with O. Reg. 153/04	Summary	PCA(s) contributing to an APEC at the Site (Yes/No/Rationale)
Waterloo Central Railway spur line located immediately to the west of the Site	#46 – Rail Yards, Tracks and Spurs	Presence of railway spur line within the Phase One ESA study area	No – The railway spur line appeared to consist of straight run tracks with no sidings that would have been used for storage of railway cars or off-loading of materials
80 Northside Drive (92 m east of the Site)	#28 – Gasoline and Associated Products Storage in Fixed Tanks	In 1991, a spill of 1,000 litres of gasoline from an AST to the ground was reported at the property. No documentation regarding the AST or spill remediation activities were available. During the Site inspection, GHD observed two exterior fuel ASTs on concrete pads at this property, which were likely installed in 2012. Because the spill occurred in 1991, it is unlikely that the spill was associated with these ASTs.	Yes – **APEC #1** related to the AST gasoline spill, because 80 Northside Drive is located hydraulically up-gradient of the Site, in the event that the gasoline spill at 80 Northside Drive migrated onto the Site.
1549 King Street North (210 m east of the Site)	#27 – Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Current operation of an auto electric service shop at this property.	No – Due to the distance between the Site and 1549 King Street North, and that no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
3074 Sawmill Road (207 m east of the Site)	#34 – Metal Fabrication	Current operation of a fabricated metal parts manufacturing facility at this property.	No – Due to the distance between the Site and 3074 Sawmill Road, and that no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
1637 King Street North (110 m northwest of the Site)	#27 – Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles #34 – Metal Fabrication	Historical operation of a welding shop (tractor and vehicle maintenance) at this property from approximately 1964 to 2010.	No – Based on the distance between the 1637 King Street North property and the Site. Also based on the 1637 King Street North property being downgradient of the Site.

Property Address or Location	PCA(s), in accordance with O. Reg. 153/04	Summary	PCA(s) contributing to an APEC at the Site (Yes/No/Rationale)
48 Hawkesville Road (adjacent to the east of the Site)	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	The property was listed as a limited vendor licence holder (retail vendor class) for registered pesticides.	No – The property was listed as a limited vendor licence holder; therefore any pesticides would be used in small quantities. Also, no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
1600 King Street North (80 m east of the Site)	#34 – Metal Fabrication #43 – Plastics (including Fibreglass) Manufacturing and Processing	Historical operation of an industrial moulds and fabricated metal and plastic parts manufacturing facility at this property.	No – The property is located hydraulically cross-gradient of the Site, and no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
1580 King Street North (150 m east of the Site)	#19 – Electronic and Computer Equipment Manufacturing.	Historical operation of a computer and peripheral equipment manufacturing facility at this property.	No – Due to the distance between the Site and 1580 King Street North, and the property is located hydraulically cross-gradient of the Site. Also, no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
7 Chris Court (210 m southeast of the Site)	#34 – Metal Fabrication	Historical operation of a metalworking machinery manufacturing facility at this property.	No – Due to the distance between the Site and 7 Chris Court, and the property is located hydraulically cross-gradient of the Site. Also, no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
1550 King Street North (150 m east of the Site)	#34 – Metal Fabrication	Historical operation of a metalworking machinery manufacturing facility at this property.	No – Due to the distance between the Site and 1550 King Street North, and the property is located hydraulically cross-gradient of the Site. Also, no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.

Property Address or Location	PCA(s), in accordance with O. Reg. 153/04	Summary	PCA(s) contributing to an APEC at the Site (Yes/No/Rationale)
1645 King Street North (190 m northeast of the Site)	#39 – Paints Manufacturing, Processing and Bulk Storage	Historical operation of a painting and wall covering contracting business at this property from approximately 1980 to 2020, which may have included bulk storage of paint.	No – Due to the distance between the Site and 1645 King Street North, and the property is located hydraulically downgradient of the Site. Also, no records were identified in the environmental databases search report with regards to any chemical releases to the natural environment at that property.
Western portion of the Site	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Current and historical use of agricultural chemicals on the agricultural fields of unknown application rates and residual concentrations.	Yes – **APEC #2**

PCAs identified at the Site and within the Phase One ESA study area are shown on Figure 3 and Figure 4, respectively.

Areas of Potential Environmental Concern

A summary, description and rationale for the APEC identified by the Phase One ESA records review, interviews, and Site reconnaissance is provided below:

– **APEC #1 – Release of Fuel from Off-Site Aboveground Storage Tank (AST):** Based on review of the environmental databases search report, 1,000 litres of gasoline was spilled from a leaking fuel AST to the ground at a property located 90 metres (m) east of the Site (80 Northside Drive) in 1991. No documentation regarding the fuel AST or spill remediation activities were available. The operation of the fuel AST was identified as a PCA (#28 – Gasoline and Associated Products Storage in in Fixed Tanks) in accordance with O. Reg. 153/04. Because 80 Northside Drive is located hydraulically up-gradient of the Site, the gasoline spill at that property was identified as having the potential to contribute to an APEC at the Site. As a result, the southeastern portion of the Site was identified as **APEC #1**, in the event that the gasoline spilled at 80 Northside Drive in 1991 migrated onto the Site.

– **APEC #2 – Agricultural Chemicals:** Based on review of historical records and discussion with the Site representatives, the western portion of the Site has been utilized for agricultural purposes since at least 1930. The Site representatives indicated that agricultural chemicals are currently used on the Site by the farmers who lease the land and were used historically at the Site. Additionally, the western portion of the 118 Northside Drive property historically contained an apple orchard which may have involved the use of agricultural chemicals. Information regarding historic and current use or application rates for agricultural chemicals was not available. The current and historical use of agricultural chemicals at the Site is identified as a PCA (#40 – Pesticides [including Herbicides, Fungicides and Anti-Fouling Agents] Manufacturing, Processing, Bulk Storage and Large-Scale Applications) in accordance with O. Reg. 153/04, and most of the Site was identified as **APEC #2**.

The APECs identified at the Site are shown on Figure 3.

7.4.3 Contaminants of Potential Concern (COPCs)

Based on the results of the Phase One ESA, the following COPCs related to the APEC(s) were identified at the Site:

Area of Potential Environmental Concern	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #1 – Release of Fuel from Off-Site AST	BTEX, PAHs, PHCs	Groundwater
APEC #2 – Agricultural Chemicals	Organochlorine Pesticides (OCs), Metals, As, Sb, Se, Hg, Cr (VI), CN^-, Boron, hot water soluble (B-HWS)	Soil

7.4.4 Potential Contaminant Distribution and Preferential Transport Pathways

Based on discussions with the Site representative and observations made by GHD during the Site inspection, underground utilities present beneath the 110 and 118 Northside Drive portions of the Site are limited to telecommunication lines, natural gas lines, electrical services, sanitary sewer lines and water connections. The exact locations of the underground utilities are not known to accurately assess if the underground utilities have the potential to act as preferential migration pathways or affect distribution of contaminants.

A municipal drain (Northside Drive Municipal Drain) is present beginning at 74 Northside Drive (St. Jacobs Water Pumping Station) and passes northerly through the rear of the residential lots, including the 118 Northside Drive portion of the Site, to 122 Northside Drive. The drain is located approximately 5 m east of the property lines, and consists of a 250-300 millimetre (mm) diameter high density polyethylene closed pipe. Catch basins are present at the rear of the residential lots that connect to the municipal drain. The municipal drain turns into an open drain at the end of the wetland located north of the Site, which flows towards a natural watercourse that discharges after passing beneath Arthur Street to Municipal Drain Number 11.

To the best of GHD's knowledge, no other underground utilities are present beneath the Property. No PCAs were identified to be associated with the presence of underground utilities at the Site. As a result, the potential for the underground utilities to act as preferential migration pathways or affect the distribution of contaminants was not identified as a concern.

7.4.5 Validity of the Phase One Conceptual Site Model

The only uncertain/absent information identified during the completion of the Phase One ESA was related to the use of the Property between 1875 and 1930. However, it is reasonable to assume that the Property was either vacant or first was used for residential and/or agricultural purposes given the use of the Site in 1930.The uncertain/absent information regarding the use of the Property between 1978 and 1930 was not interpreted to significantly affect the validity of the Phase One Conceptual Site Model. The Phase One Conceptual Site Model for the Site and study area are shown on Figure 3 and Figure 4, respectively.

8. Conclusions

Based on the results of the Phase One ESA, including the Site inspection, information provided by the Site representatives and regulatory agencies, documents reviewed and the review of Site history, the following APECs were identified to be associated with the Site:

– **APEC #1 – Release of Fuel from Off-Site Aboveground Storage Tank (AST):** Based on review of the environmental databases search report, 1,000 litres of gasoline was spilled from a leaking fuel AST to the ground at a property located 90 metres (m) east of the Site (80 Northside Drive) in 1991. No documentation regarding the fuel AST or spill remediation activities were available. The operation of the fuel AST was identified as a PCA (#28 – Gasoline and Associated Products Storage in in Fixed Tanks) in accordance with O. Reg. 153/04. Because 80 Northside Drive is located hydraulically up-gradient of the Site, the gasoline spill at that property was identified as having the potential to contribute to an APEC at the Site. As a result, the southeastern portion of the Site was identified as **APEC #1**, in the event that the gasoline spilled at 80 Northside Drive in 1991 migrated onto the Site.

– **APEC #2 – Agricultural Chemicals:** Based on review of historical records and discussion with the Site representatives, the western portion of the Site has been utilized for agricultural purposes since at least 1930. The Site representatives indicated that agricultural chemicals are currently used on the Site by the farmers who lease the land and were used historically at the Site. Additionally, the western portion of the 118 Northside Drive property historically contained an apple orchard which may have involved the use of agricultural chemicals. Information regarding historic and current use or application rates for agricultural chemicals was not available. The current and historical use of agricultural chemicals at the Site is identified as a PCA (#40 – Pesticides [including Herbicides, Fungicides and Anti-Fouling Agents] Manufacturing, Processing, Bulk Storage and Large-Scale Applications) in accordance with O. Reg. 153/04, and most of the Site was identified as **APEC #2**.

8.1 Requirement for Phase Two ESA before RSC can be Submitted

Based on the information obtained in completing the Phase One ESA, a Phase Two ESA is required before an RSC can be filed with the MECP.

All of Which is Respectfully Submitted,

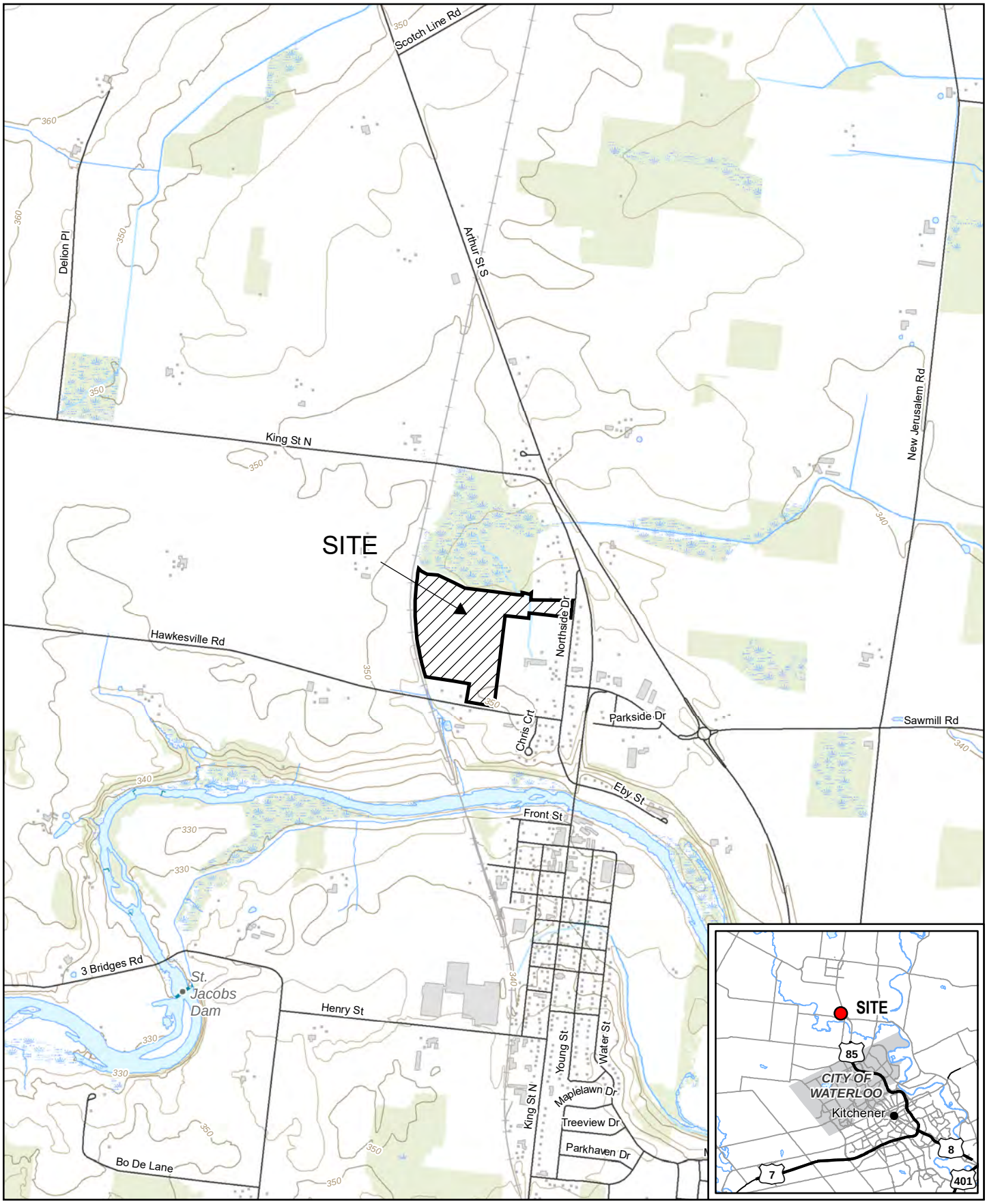
GHD

Laura Bender, P. Eng.



Gregory R. Brooks, P. Eng.

Figures



Paper Size ANSI A

0 200 400 600

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

N

GHD

SCHLEGEL URBAN DEVELOPMENTS CORP
HAWKESVILLE ROAD AND NORTHSIDE DRIVE
DEVELOPMENT LANDS, ST. JACOBS, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

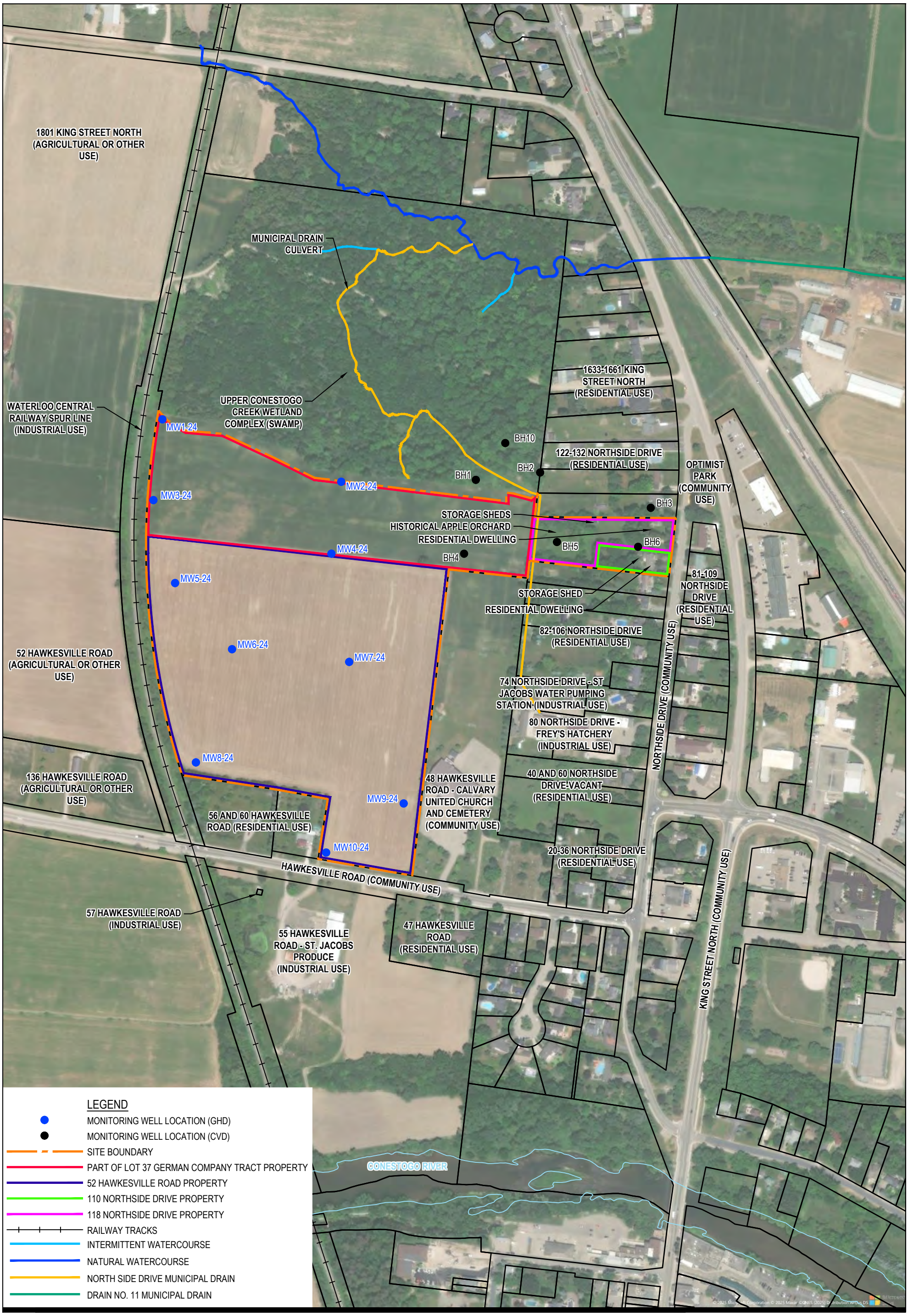
Project No. **12637434**
Revision No. **-**
Date **Feb 4, 2025**

SITE LOCATION MAP

FIGURE 1

O:\GIS\PROJECTS\12637000s\12637434\GIS\Maps\Deliverables\RPT004\12637434_001_SiteLocationMap.mxd
Print date: 30 Apr 2025 - 09:58

Data source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry. © Queen's Printer 2025.



0 40 80 120m

1:4000

Coordinate System: UTM83-17

N

GHD

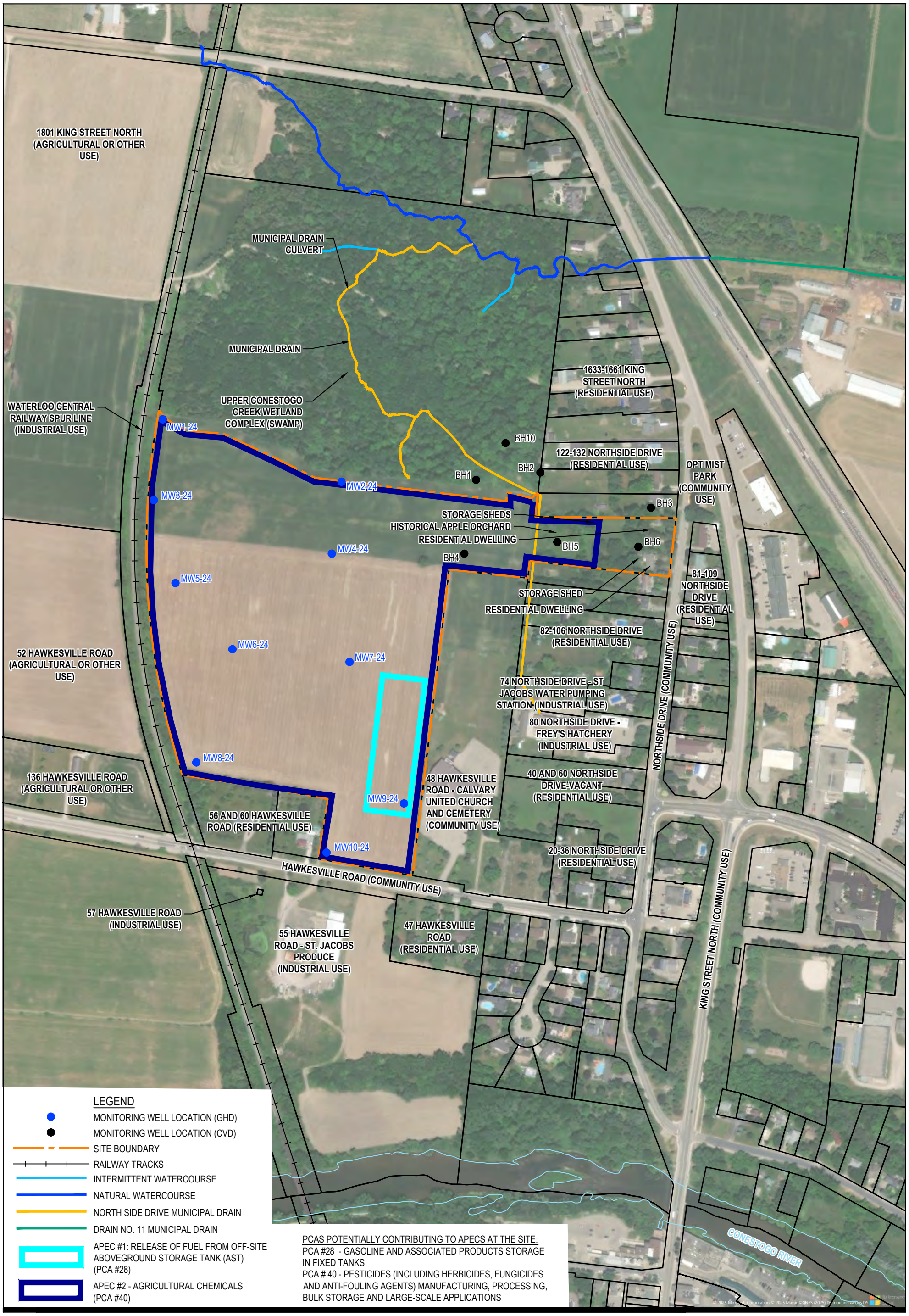
SCHLEGEL URBAN DEVELOPMENTS CORP.
HAWKESVILLE ROAD AND NORTHSIDE DRIVE
DEVELOPMENT LANDS, ST. JACOBS, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

SITE PLAN

Project No. **12637434**
Date **March 2025**

FIGURE 2

Filename: \\ghdnet\ghd\CA\Waterloo\Projects\662\12637434\Digital_Design\ACAD\Figures\RPT004\12637434-GHD-00-00-RPT-EN-D101_WA-004.dwg
Plot Date: 30 April 2025 10:35 AM



0 40 80 120m

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Coordinate System: UTM83-17

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GHD

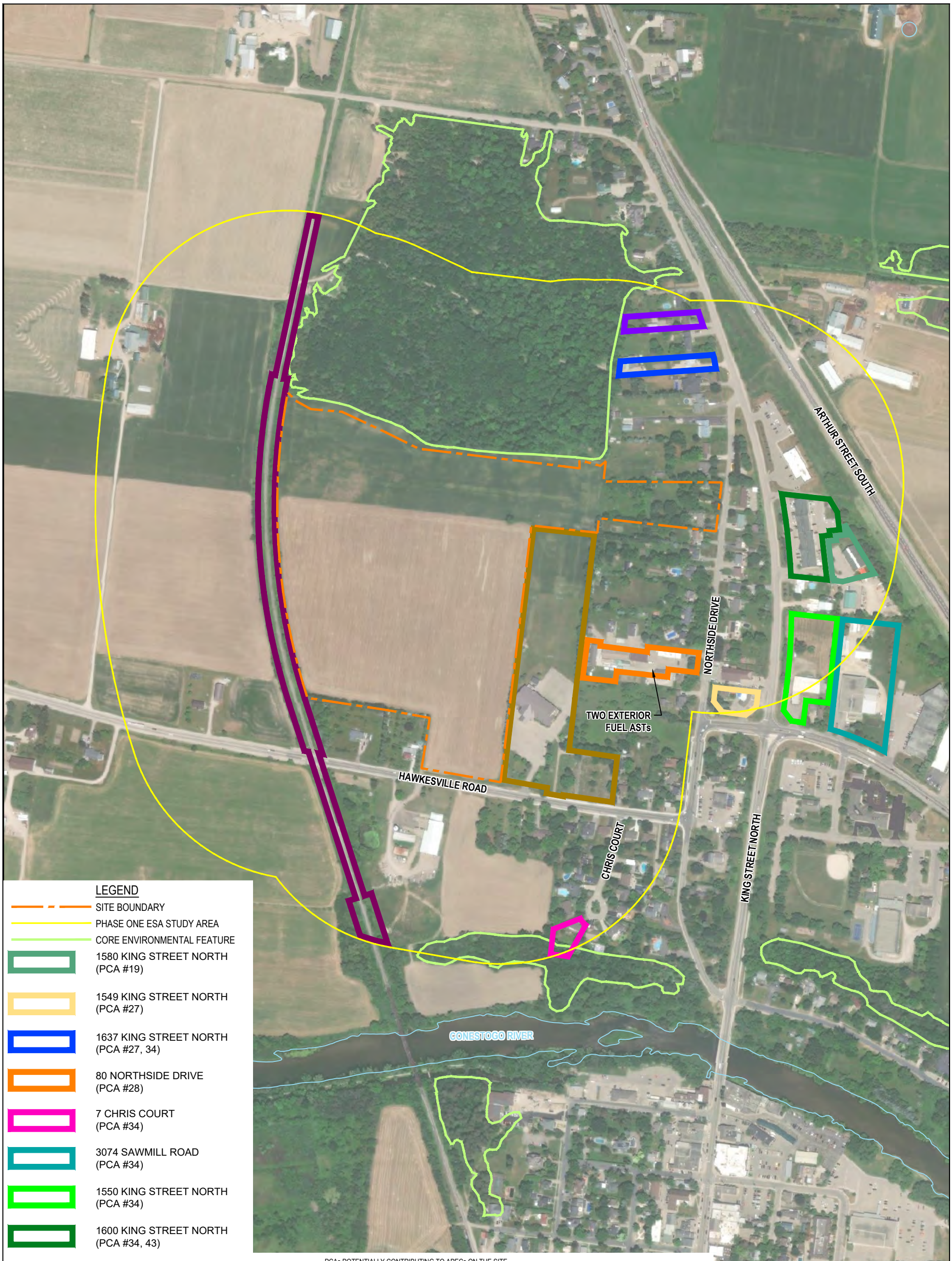
SCHLEGEL URBAN DEVELOPMENTS CORP.
HAWKESVILLE ROAD AND NORTHSIDE DRIVE DEVELOPMENT LANDS, ST. JACOBS, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

PHASE ONE CONCEPTUAL SITE MODEL - SITE

Project No. **12637434**
Date **March 2025**

FIGURE 3

Filename: \\ghdnet\ghd\CA\Waterloo\Projects\662\12637434\Digital_Design\ACAD\Figures\RPT004\12637434-GHD-00-00-RPT-EN-D103_WA-004.dwg
Plot Date: 30 April 2025 10:35 AM



PCAs POTENTIALLY CONTRIBUTING TO APECs ON THE SITE

PCA #19 - ELECTRONIC AND COMPUTER EQUIPMENT MANUFACTURING
PCA #27 - GARAGES AND MAINTENANCE AND REPAIR OF RAILCARS, MARINE VEHICLES AND AVIATION VEHICLE
PCA #28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
PCA #34 - METAL FABRICATION
PCA #39 - PAINTS MANUFACTURING, PROCESSING AND BULK STORAGE
PCA #40 - PESTICIDES (INCLUDING HERBICIDES, FUNGICIDES AND ANTI-FOULING AGENTS) MANUFACTURING, PROCESSING, BULK STORAGE AND LARGE-SCALE APPLICATIONS
PCA #43 - PLASTICS (INCLUDING FIBREGLASS) MANUFACTURING AND PROCESSING
PCA #46 - RAIL YARDS, TRACKS AND SPURS

0 50 100 150m

1:5000

Coordinate System: UTM83-17

N

GHD

SCHLEGEL URBAN DEVELOPMENTS CORP.
HAWKESVILLE ROAD AND NORTHSIDE DRIVE DEVELOPMENT LANDS, ST. JACOBS, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

PHASE ONE CONCEPTUAL SITE MODEL - STUDY AREA

Project No. **12637434**
Date **February 2025**

FIGURE 4

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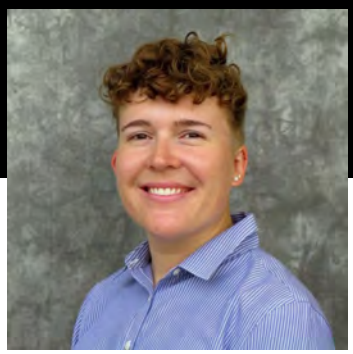
Appendices

Appendix A

Project Personnel Curriculum Vitae

Laura Bender P. ENG.

Engineer



Location

Waterloo, Ontario, Canada

Experience

4 years

Qualifications/Accreditations

– Bachelor of Engineering (B.Eng.), Environmental Engineering, University of Guelph, 2020

Key technical skills

– Project management and coordination
– Technical report writing
– Data analysis and management
– Proficiency in Microsoft Office
– Field competencies associated with environmental investigations

Memberships

– Registered Professional Engineer in Ontario

Relevant experience summary

Laura is a professional engineer (licensed in Ontario, Canada). She is a member of GHD's Canadian Environmental Due Diligence Group with 4 years of consulting experience conducting Phase I/One Environmental Site Assessments (ESAs), Phase II/Two ESAs, Environmental Investigations, remedial projects and long-term monitoring programs for future development. Laura has extensive project coordination, management, technical report writing and field experience associated with these environmental investigations. Laura's field experience consists of all aspects of environmental investigations including advancement of boreholes, remedial excavations, installation of monitoring wells, classification/characterization of soils, and collection of soil, groundwater, and soil vapour samples.

Project experience – Environmental Due Diligence

Phase II/Two ESAs

Project Personnel |
Various Clients | Southern Ontario, Canada

Assist in completion of various Phase II/Two ESAs at facilities across southern Ontario. Select projects are listed below:

– Phase Two ESA of multiple agricultural and rural residential properties in Elmira
– Phase Two ESA of an industrial facility specializing in rubber sealing for the automotive industry in Georgetown
– Phase II ESA of an automotive brake and fuel tube manufacturing facility in Glencoe
– Phase II ESA of an active industrial property supporting off-Site sanitation services including septic tank servicing and portable toilet rentals in Parkhill.
– Phase Two ESA of an agricultural field in Walkerton
– Phase Two ESA of a former service station in St. Mary's.

Assist with the following activities to support the above projects:

– Determine APECs and prepare sampling and analysis plans
– Prepare Site-specific health and safety plans
– Coordinate public/private utility locates
– Coordinate field staff/drillers, prepare purchase orders
– Oversight of drilling activities utilizing hollow stem augers and direct push methods
– Classification/characterization of soils, collection of soil samples for chemical analysis
– Installation of groundwater monitoring wells, development of newly installed wells and groundwater sample collection through low-flow, bailer and Waterra sampling methods
– Complete data analysis/delineation and report preparation

T 519-340-4468 | **M** 519-831-3173 | **E** laura.bender@ghd.com

Phase I/One ESAs

Completed over twenty Phase I/One ESAs at facilities in southern Ontario. Select projects are listed below:

- Phase I ESA of a deadstock facility in Atwood
- Phase One ESA of a former public utility facility in Woodstock
- Phase I ESA of an automotive brake and fuel tube manufacturing facility in Glencoe
- Phase One ESA of a Provincial Park land parcel in Port Burwell
- Phase One ESA of a former municipal substation in Waterloo
- Phase I ESA of a steel water storage tank manufacturing facility in Burlington
- CESA of a pharmaceutical/ automotive abrasive and adhesive products manufacturing facility in London
- Phase I/One ESAs of numerous agricultural lands in Ontario
- Phase I ESAs of numerous mixed retail/commercial buildings in Ontario

Project experience – Groundwater Remediation

Groundwater Treatment System

Project Coordinator |
IMT Partnership | Ingersoll, Ontario, Canada |
January 2022 - Present

Laura is responsible for completing the monitoring activities and reporting for a groundwater recovery and treatment system at an industrial property under the direction of the Ministry of the Environment, Conservation and Parks (MECP). The monitoring activities are completed to evaluate the presence treating groundwater impacted with trichloroethylene and related chlorinated volatile organic compounds.

Groundwater Treatment System

Project Coordinator |
Carrier Canada Corporation | Brantford, Ontario, Canada | October 2020 - Present

Laura is responsible for completing monitoring activities and associated reporting at an industrial property and adjacent residential properties (approximately 24 city blocks) under the direction of the Ministry of the Environment, Conservation and Parks (MECP). The monitoring activities are completed to evaluate the presence of trichloroethylene (TCE) and its associated breakdown products. Laura is responsible for the coordination and supervision of annual groundwater and storm sewer sampling activities, and biannual groundwater and soil vapour sampling activities; and preparation of annual monitoring reports submitted to the MECP, the client, municipality, and local health unit.

High Vacuum Dual Phase Extraction

Project Personnel |
Confidential Client | Woodstock, Ontario, Canada |
June 2020 – June 2022

Supported operation of a High Vacuum Dual Phase Extraction (HVDPE) groundwater and soil vapour treatment system at a vacant industrial property for remediation of chlorinated solvents to support redevelopment of a brownfield site. Assisted with ongoing HVDPE system operation including weekly soil vapour and influent/effluent groundwater sampling of the system, annual groundwater monitoring program and rebound monitoring events between phases, as well as annual reporting and mass removal calculations.

Project experience – Monitoring Programs

Monitoring and Contingency Programs for Subdivision Development

Project Coordinator |
Various Developers | Kitchener, Ontario, Canada |
August 2020 - Present

Laura is responsible for managing and completing monitoring activities and associated reporting for four ongoing/future residential development sites in Kitchener under the direction of the Region of Waterloo. The monitoring activities consist of quarterly groundwater level monitoring events and annual sampling events for chloride, general chemistry and metals. Laura completes field activities including groundwater level measurements, well purging, sampling utilizing Waterra and discrete interval sampling (DIS) methods, and downloading data from Solinst and Diver pressure transducers. Laura is responsible for preparing annual reports submitted to the Region of Waterloo, the City of Kitchener, the Grand River Conservation Authority.

Project Personnel | Kitchener, Ontario, Canada |
April 2021 – March 2022

Coordinate permitting, traffic control and field work for groundwater monitoring/sampling associated with a certificate of property use (CPU) at a commercial property, previously a gasoline and diesel fuel outlet.

Other Related Areas of Interest

Certifications/Trainings

- OSHA 8 hour HAZWOPER Refresher Training
- Petroleum Oriented Safety Training (POST)
- First Aid and CPR Certified

Career history

2020 – Present	GHD, Project Engineer, Waterloo, ON

A GHD Principal

Gregory R. Brooks P. ENG.

Technical Director



Location

Waterloo, Ontario, Canada

Experience

36 years

Qualifications/Accreditations

– B.A. Sc., - Civil Engineering, University of Waterloo, 1987

Memberships

– Licensed Professional Engineer: Ontario
– Former Ontario Chapter Executive, National Brownfield Association

Relevant experience summary

Gregory is a professional engineer and a Principal in GHD. Gregory leads GHD's Canadian Environmental Due Diligence practice and has been extensively involved in Site Investigations, Phase I and II ESAs, Site Remediation, Risk Assessment, and Brownfield Redevelopment in Canada and the United States. Past experience also includes the planning and implementation of Environmental Compliance Assessments in Canada and the United States. Gregory also oversaw the development and implementation of GHD North America's ISO 9001 Quality System.

Remedial Design/Construction

– Construction supervision of leachate collection system and treatment facility for groundwater contaminated with coal tar.
– Design of leachate recirculation system to enhance rapid landfill stabilization.
– Design and construction of landfill gas recovery and utilization system.
– Design of groundwater extraction system for contaminated groundwater.
– Development of remediation plan for a former coal gasification plant.
– Hydrogeologic investigation of coal tar contaminated site including the design of remedial alternatives.
– Site Engineer during bioremediation project for soils contaminated with oil tar.
– Remedial action plan design for a former lead smelting and refinery plant.
– Design Operations and Stormwater Management Plans for a proposed clay borrow operation.
– Design of a Coal Tar Collection System which included shallow perforated pipe collector, deep coal tar collection well, creek rerouting and infilling, and overflow weir tar collector.
– Project Manager for the decommissioning of a rental car service facility.
– Project Manager for Remedial Design, including the change of USEPA Record of Decision at a former Tannery Site in Michigan.
– Site investigation and design of groundwater pump and treatment system for a retail service station.
– Preliminary Assessment, Site Investigation and Remedial Investigation for ISRA closure of a manufacturing facility in New Jersey.
– Design and construction oversight for an air sparging and soil vapour extraction system to remove chlorinated solvents from groundwater at the downgradient perimeter of an industrial facility.
– Design of a groundwater extraction and treatment facility to remove trichloroethylene from groundwater.
– Design of a chemical oxidation remedial program to remedial shallow groundwater.

Facility Decommissioning/Brownfields

– Decommissioning of a 200,000-square-foot manufacturing facility to accommodate change in land use and sale of property.
– Investigation and decommissioning of a 200,000-square-foot former smelting facility in Scarborough, Ontario to facilitate sale and redevelopment of the property. Project included design of a vapour barrier to mitigation potential for migration of chlorinated solvents to indoor air.

– Site investigation and remedial design for decommissioning of a former pesticide formulation plant.
– Assessment and cleanup of a former outboard marine motor manufacturing facility.
– Fuel facility decommissioning for trucking facility.
– Consultant to the Town of Collingwood on the Brownfield redevelopment of the Canada Steamship Lines property.
– Consultant to the University of Waterloo on the development of the School of Pharmacy and Medical School campus in Kitchener, Ontario.
– Investigation and development of remedial cost estimates for a former footwear manufacturing facility.
– Investigation and preparation of a Remedial Action Plan for a former automotive parts manufacturing facility that was impacted with chlorinated solvents.
– Investigation of a former electronics manufacturing facility impacted with chlorinated solvents.

Environmental Management Systems

– Development and implementation of an Environmental Management System for five manufacturing facilities located in Ontario.
– Development and implementation of an Environmental Management System for 16 automotive parts manufacturing facilities in Ontario.
– Development of an Environmental Management System for a large automotive frame manufacturing facility in Ontario.
– Completed ISO 14000 GAP analysis on largest quarry operation in Ontario.
– Review of aspects and impacts for large chemical manufacturing facility.
– Completed ISO 14000 GAP analysis of heat treating facility.
– Development and implementation of an ISO 14000 compliant EMS for electronics manufacturer.
– Development of ISO 14000 EMS for two glass mat plants and a ceramic materials plant.

Risk Assessment Projects

– Risk Assessment for a former industrial manufacturing facility to facilitate redevelopment for Big Box commercial use.
– Risk Assessment for a former textile facility to facilitate redevelopment for institutional use.
– Risk Assessment of residential neighbourhood to evaluate potential exposure to trichloroethylene and degradation compounds from shallow groundwater.
– Risk Assessment of an industrial facility in Toronto to facilitate management of solvent impacts under the building floor.
– Risk Assessment of a former commercial property with past industrial uses to facilitate development of an institutional facility that includes residential land uses.
– Risk Assessment of a former lakefill and industrial property in downtown Toronto, for reuse as residential/commercial.
– Risk Assessment (ongoing) of a former distillery for development into a University campus.
– Risk Assessment (ongoing) of a former trucking facility and service station in Kitchener, Ontario.
– Risk Assessment of a former automotive parts manufacturing facility.
– Risk Assessment (ongoing) of a commercial shopping mall impacted with hydrocarbons in London, Ontario.
– Risk Assessment (ongoing) of a former paint manufacturing facility in Mississauga, Ontario.
– Risk Assessment (ongoing) of former railway locomotive works.

Environmental Site Assessment and Compliance Assessment Experience

– Completed over 500 Phase I Environmental Site Assessments and Phase II Environmental Site Assessments at facilities in Canada, the United States, Mexico, and Europe. Selected experience listed below.
  - Environmental Compliance Assessments
  - Gypsum mine
  - Automotive parts manufacturing
  - Phase I Environmental Site Assessments
  - Large aggregate extraction and processing
  - Closed landfill site
  - International equipment manufacturer and retailer
  - 1.5-million-square-foot diesel electric locomotive and light armored vehicle manufacturing facility
  - Funeral homes, cemeteries, and crematories
  - Metal fabrication facilities
  - Seafood preparation facility including an evaluation of wastewater treatment requirements
  - Chemical blending facilities
  - Paint manufacturing facility
  - Refrigerated warehouse facility
  - Tube manufacturing facilities
  - Trucking facilities
  - Drycleaning facilities
  - Railway line
  - Forge facility
  - Numerous rental car facilities
  - Pigment manufacturing facility
  - Dairy facility

- PVC film manufacturing facility
- Pyrotechnics manufacturing facility
- Lighting fixture manufacturing facilities
- Block of land in downtown Calgary
- Plate glass manufacturing facility
- Rock wool manufacturing facility

Career history

2014 - present	Principal, GHD (formerly Conestoga-Rovers & Associates), Waterloo, ON
2009	Named to CRA Executive Committee
1999	Named CRA Principal
1996	Named CRA Associate

Appendix B

Fire Insurance Information



opta
INFORMATION INTELLIGENCE

enviroscan







175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 1 877 244 9437
W: optaintel.ca

Stephanie

Site Address:

52 Hawkesville Road 110 118 Northside Drive St Jacobs ON

Requested By:

Eleanor Goolab
Ecolog Eris

Project No:

24110800524

Date Completed:

12/6/2024 9:04:09 PM

Opta Order ID:

151903

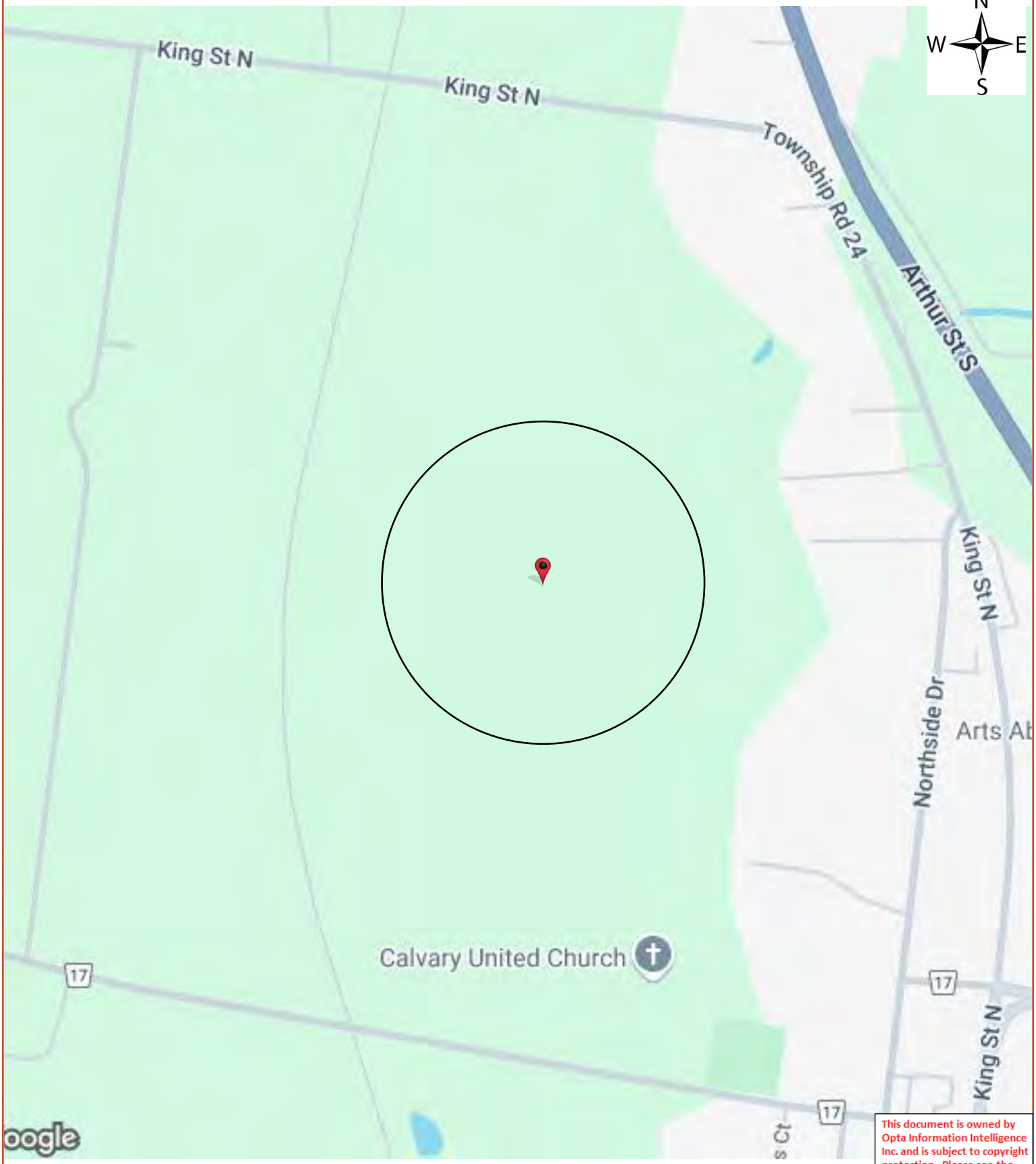
Project Name: 52 Hawkesville Road 110 Northside Drive 118 Northside Drive Part of Lot 37 German Company Tract
Project #: 24110800524
P.O. #: 12637434DEL.3

ENVIROSCAN Report

Search Area: 52 Hawkesville Road 110 118 Northside Drive St Jacobs ON

Requested by:
Eleanor Goolab
Date Completed: 12/06/2024 21:04:09

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Project Name: 52 Hawkesville Road 110 Northside Drive 118 Northside Drive Part of Lot 37 German Company Tract
Project #: 24110800524
P.O. #: 12637434DEL.3

ENVIROSCAN Report

Opta Historical Environmental Services Enviroscan Terms and Conditions

Requested by:
Eleanor Goolab
Date Completed: 12/06/2024 21:04:09

enviroscan
OPTA INFORMATION INTELLIGENCE

Opta Historical Environmental Services Enviroscan™ Terms and Conditions

Report

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

Disclaimer

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

Entire Agreement

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

Governing Document

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

Law

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

Project Name: 52 Hawkesville Road 110 Northside Drive 118 Northside Drive Part of Lot 37 German Company Tract
Project #: 241110800524
P.O. #: 12637434DEL.3

ENVIROSCAN Report

No Records Found

Requested by:
Eleanor Goolab
Date Completed: 12/06/2024 21:04:09

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Appendix C

Property Title Records

CHAIN OF TITLE REPORT

Project #: 12637434
Address: 52 Hawkesville Rd, 110 & 118
Legal Description: Northside Dr., St. Jacobs lots 38-39 RCP 1547; Pt lot 37, GCT as in 988702 & 1202515
PIN #: 22234-0382(LT)

Searched at: Kitchener
LRO #: 58

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent	05 02 1798	Crown	**William WALLACE**
205	Deed	04 08 1807	William Wallace	Jacob ERB
537	Deed	11 04 1831	Jacob Erb	David MARTIN
974	Deed	19 05 1832	Jacob Erb	Peter EBY
714	Deed	10 07 1837	Peter Eby	Joseph SHANTZ
78	Deed	08 02 1838	David Martin	Anthony RITZEL
572	Deed	13 02 1839	David Martin	Peter MARTIN
1119	Deed	24 02 1859	Joseph Shantz	Jacob WEBER
5476	Will	16 01 1879	Anthony Ritzel - estate	Charles GIES

Cont'd on page 2

CHAIN OF TITLE REPORT

Project #: 12637434
Address: 52 Hawkesville Rd, 110 & 118
Legal Description: Northside Dr., St. Jacobs lots 38-39 RCP 1547; Pt lot 37, GCT as in 988702 & 1202515
PIN #: 22234-0382(LT)

Searched at: Kitchener
LRO #: 58

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
5479	Deed	16 01 1879	Charles Gies	Leon REUTZEL
7359	Deed	02 03 1887	Jacob Weber	Henry WIEBERGALL
10440	Deed	06 03 1903	Peter Martin	Tillman M. MARTIN
14322	Deed	11 03 1921	Henry Wiebergall	Harry GARNER
14386	Deed	23 05 1921	Leon Reutzel	Henry DOERBACKER
14525	Deed	16 03 1922	Henry Doerbacker	Simon M. MARTIN
16287	Deed	06 03 1933	Tillman M. Martin	Daniel S. SHANTZ
19399	Deed	26 02 1948	Daniel S. Shantz	Ervin SHANTZ & Esther SHANTZ
20504	Deed	03 05 1951	Harry Garner	Harry Ernest GARNER

Cont'd on page 3

CHAIN OF TITLE REPORT

Project #:	12637434	Searched at:	Kitchener
Address:	52 Hawkesville Rd, 110 & 118	LRO #:	58
Legal Description:	Northside Dr., St. Jacobs lots 38-39 RCP 1547; Pt lot 37, GCT as in 988702 & 1202515		
PIN #:	22234-0382(LT)		

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
20527	Deed	03 05 1951	Simon M. Martin	Cleason CLEMMER
178248	Deed	03 12 1958	Harry Ernest Garner	Milfred SNYDER
370476	Deed	26 04 1968	Cleason Clemmer	Noah B. MARTIN
373683	Deed (Pt lot 37, GCT)	10 06 1968	Noah B. Martin	Aveline Farms Limited
429075	Deed (lot 39, RCP 1547)	27 07 1970	Milferd Snyder	Director, The Veterans' Land Act
519824	Deed	14 05 1974	Ervin Shantz & Esther Shantz	Daniel M. SHANTZ
790376	Deed	30 08 1984	Harry Ernest Garner	Richard FREDE & Derry FREDE
823152	Deed	04 09 1985	Director, The Veterans' Land Act	Alfred B. HARRIS
988702	Deed (Pt lot 37, GCT)	24 04 1989	Aveline Farms Limited	650207 Ontario Limited

Cont'd on page 4

CHAIN OF TITLE REPORT

Project #: 12637434
Address: 52 Hawkesville Rd, 110 & 118
Legal Description: Northside Dr., St. Jacobs lots 38-39 RCP 1547; Pt lot 37, GCT as in 988702 & 1202515
PIN #: 22234-0382(LT)

Searched at: Kitchener
LRO #: 58

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
1202515	Deed (Pt lot 37, GCT)	04 02 1994	Daniel M. Shantz	Salema SHANTZ
1203593	Deed (lot 38, RCP 1547)	18 02 1994	Richard & Derry Frede	Richard FREDE
1299769	Deed	10 07 1996	Salema Shantz	Daniel SHANTZ & Salema SHANTZ
WR27334	Deed	24 03 2004	Daniel & Salema Shantz	Salema SHANTZ
WR42980	Deed	31 05 2004	Salema Shantz	1604964 Ontario Inc.
WR779490	Deed	23 09 2013	Alfred Bingham Harris - estate	Georgina Alberta HARRIS
WR1232233	Deed (lot 39, RCP 1547)	16 12 2019	Georgina Alberta Harris	1553743 Ontario Limited
WR1568909	Deed **(Present Owner)**	24 04 2024	650207 Ontario Limited	**Schlegel Urban Developments Corp.**
WR1579011	Deed **(Present Owner)**	21 06 2024	1553743 Ontario Limited	**Schlegel Urban Developments Corp.**
WR1579013	Deed **(Present Owner)**	21 06 2024	1604964 Ontario Inc.	**Schlegel Urban Developments Corp.**

PROPERTY DESCRIPTION: FIRSTLY: LOT 38 REGISTRAR'S COMPILED PLAN 1547 WOOLWICH; SECONDLY: LOT 39 REGISTRAR'S COMPILED PLAN 1547 WOOLWICH; THIRDLY: PART LOT 37 GERMAN COMPANY TRACT WOOLWICH AS IN 1202515 EAST OF CNR; FOURTHLY: PART LOT 37 GERMAN COMPANY TRACT WOOLWICH AS IN 988702 (FIRSTLY LYING EAST OF CNR) EXCEPT 58R10739 & PART 1 WDR261; TOWNSHIP OF WOOLWICH

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
CONSOLIDATION FROM 22234-0096, 22234-0118, 22234-0119, 22234-0160

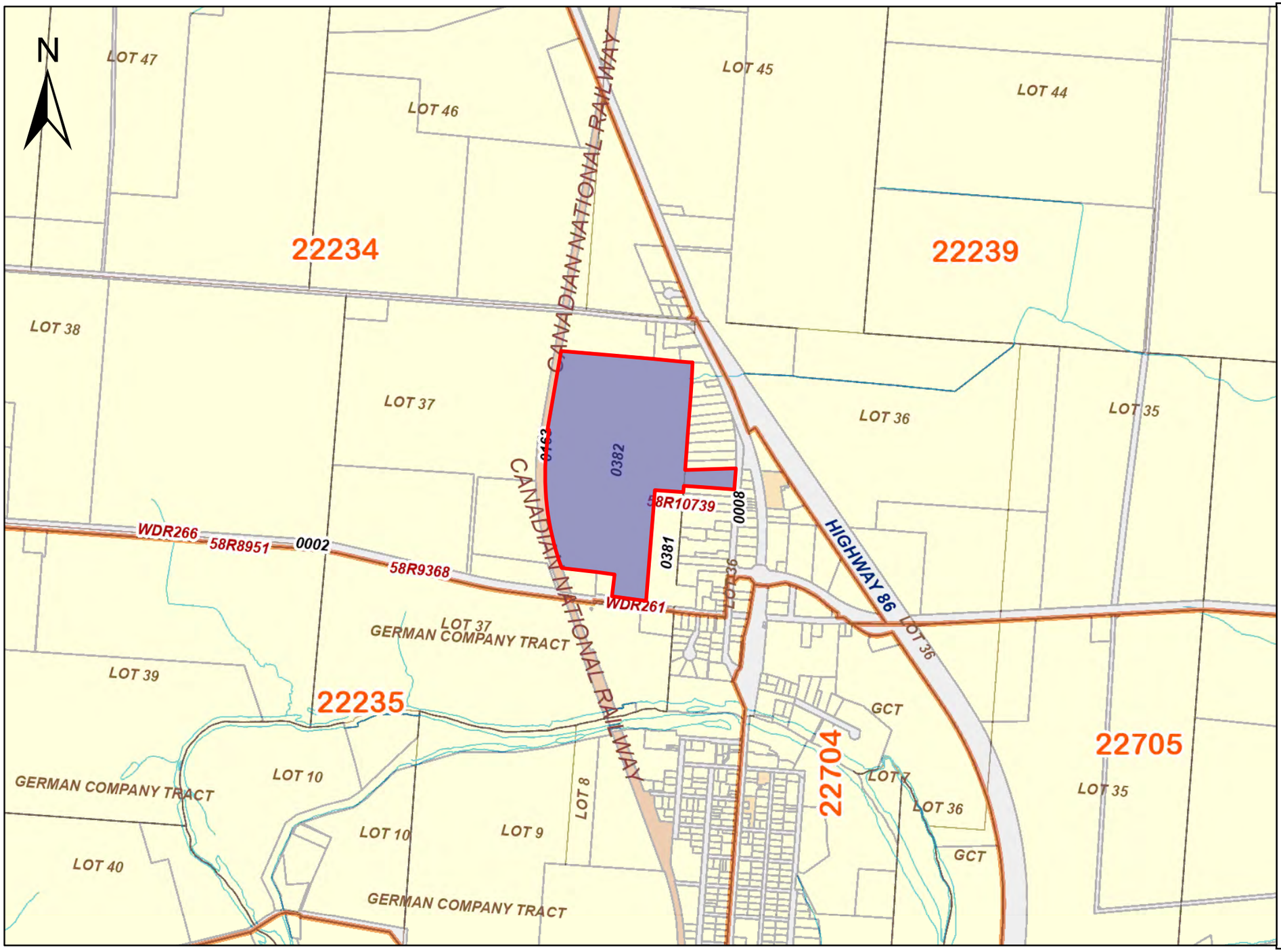
PIN CREATION DATE:
2024/10/01

OWNERS' NAMES
SCHLEGEL URBAN DEVELOPMENTS CORP.

CAPACITY SHARE
ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2024/10/01 **						
**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: 2002/09/16 **						
WR1568909	2024/04/24	TRANSFER	$2	650207 ONTARIO LIMITED	SCHLEGEL URBAN DEVELOPMENTS CORP.	C
REMARKS: PLANNING ACT STATEMENTS.						
WR1568910	2024/04/24	CHARGE	$6,500,000	SCHLEGEL URBAN DEVELOPMENTS CORP.	650207 ONTARIO LIMITED	C
WR1579011	2024/06/21	TRANSFER	$2	1553743 ONTARIO LIMITED	SCHLEGEL URBAN DEVELOPMENTS CORP.	C
REMARKS: PLANNING ACT STATEMENTS.						
WR1579012	2024/06/21	CHARGE	$2,962,500	SCHLEGEL URBAN DEVELOPMENTS CORP.	1553743 ONTARIO LIMITED	C
WR1579013	2024/06/21	TRANSFER	$2	1604964 ONTARIO INC.	SCHLEGEL URBAN DEVELOPMENTS CORP.	C
REMARKS: PLANNING ACT STATEMENTS.						
WR1579014	2024/06/21	CHARGE	$4,937,500	SCHLEGEL URBAN DEVELOPMENTS CORP.	1604964 ONTARIO INC.	C
WR1591539	2024/08/26	APL CONSOLIDATE		SCHLEGEL URBAN DEVELOPMENTS CORP.		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.



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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

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

Ontario

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Appendix D

Previous Environmental Reports

CHUNG & VANDER DOELEN
ENGINEERING LTD.

PHASE I ENVIRONMENTAL SITE ASSESSMENT

110 & 118 NORTHSIDE DRIVE AND THE ADJOINING AGRICULTURAL PROPERTY (PART OF TRACT GERMAN COMPANY PT LOT 37 - CIVIC ADDRESS TWP 24 RD #S)

ST JACOBS, ONTARIO

SUBMITTED TO:
Mr. Mike Gilles, BA, C.E.T. and Richard Frede
1604964 Ontario Inc. and 1553743 Ontario Ltd
34 Weberlyn Crescent
Conestogo, Ontario
N0B 1N0

FILE NO: E21379 **/** November 18, 2021

CHUNG & VANDER DOELEN
ENGINEERING LTD.

311 VICTORIA STREET NORTH
KITCHENER / ONTARIO / N2H 5E1
519-742-8979

November 18, 2021
FILE NO.: E21379

Mr. Mike Gilles, BA, C.E.T. and Richard Frede
1604964 Ontario Inc. and 1553743 Ontario Ltd
34 Weberlyn Crescent
Conestogo, Ontario
N0B 1N0

Dear Mr. Gilles and Mr. Frede:

RE: PHASE I ENVIRONMENTAL SITE ASSESSMENT
110 & 118 NORTHSIDE DRIVE AND THE ADJOINING AGRICULTURAL PROPERTY (PART OF TRACT GERMAN COMPANY PT LOT 37 - CIVIC ADDRESS TWP 24 RD #S)
ST JACOBS, ONTARIO

We are enclosing one copy of our Phase I Environmental Site Assessment (ESA) report conducted for the above-referenced property.

If you have any questions or clarifications are required, please contact the undersigned at your convenience.

We thank you for giving us this opportunity to be of service to you.

Yours truly,

CHUNG & VANDER DOELEN ENGINEERING LTD.

Michael J. Lefebvre, P.Geo.
Senior Manager, Environmental Services

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APPENDIX G QUALIFICATIONS OF ASSESSOR

1.0 EXECUTIVE SUMMARY

CHUNG & VANDER DOELEN ENGINEERING LTD. (CVD) was retained by Mike Gilles to conduct a Phase I Environmental Site Assessment of the residential properties located at 110 & 118 Northside Drive and the adjoining agricultural property located in St. Jacobs, Ontario (herein referred to as the "Site").

The purpose of the Phase I ESA is to evaluate the environmental conditions of the Site and to identify actual or potential sources of contamination associated with the Site and surrounding properties. It is our understanding that this assessment is required for due diligence purposes to support the development of the Site and that a Record of Site Condition (RSC) is not intended for the Site.

The Site is an irregular shaped property, approximately 4.26 acres in area, located west of Northside Drive in an area of mixed residential and commercial land uses. The eastern portion of the Site is currently occupied by two (2) residential properties while the western portion of the Site is an agricultural land use.

A review of available documents and interviews indicates that the Site has historically been residential and agricultural land. The residential units on-Site were constructed in the 1950s. Aerial photographs from 1955 to 2020 show the Site as a mixed residential and agricultural land use.

The findings of the Phase I ESA did not identify any actual sources of contamination on the Site. Potentially contaminating activities (PCAs) associated with the surrounding properties were identified, however, based on separation distances and inferred trans or down gradient locations in terms of groundwater flow, CVD considers the environmental liabilities of the PCAs to be low.

It is CVD's professional opinion that the potential for environmental liabilities associated with the Site under investigation is low, and that no further investigations are required at this time. This opinion is based on the following:

- The Site does not appear to have ever been used for any land use that may produce, store, or dispose of large quantities of environmentally hazardous materials.

- The surrounding properties are not expected to pose an environmental concern for the Site. Past activities on the surrounding properties are not expected to pose an environmental concern for the Site.

To address potential operational / management issues, CVD offers the following recommendations:

- Appropriate management plans should be prepared for potential asbestos containing materials (ACMs), and lead-based paints if repair, renovation, or demolition activities are planned for the building in the future.

2.0 INTRODUCTION

2.1 Phase I Property Information

CHUNG & VANDER DOELEN ENGINEERING LTD. (CVD) was retained by Mike Gilles to conduct a Phase I Environmental Site Assessment of the residential properties located at 110 & 118 Northside Drive and the adjoining agricultural property located in St. Jacobs, Ontario (herein referred to as the "Site").

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Appendix A shows the location of the Site. A Site Plan is available in Appendix B.

3.0 SCOPE OF THE INVESTIGATION

CVD conducted this Phase I ESA in general accordance with the amended Ontario Regulation 153/04 (O. Reg. 153/04 as amended). This report also conforms to Canadian Standards Association (CSA) Z768-01 (2012). These procedures set standards for review of information pertaining to the Site, development of detailed checklists or protocols, conducting the Site inspection, and preparation of the final report. This report may not satisfy all of the necessary requirements for filing a Record of Site Condition (RSC) under O. Reg. 153/04 as amended.

The scope of work for the Phase I ESA consisted of the following tasks:

- Site reconnaissance on November 10, 2021;
- Interview discussions with the Site representative throughout the Phase I ESA process;
- A review of available survey plans, city directories, and fire insurance plans (FIPs) to determine previous occupants of the Site and surrounding properties and to determine the first developed use of the Site;
- A search of available databases to identify actual or potential sources of contamination associated with the Site and surrounding properties;
- Review of previous environmental reports, if available;
- Interpretation of available aerial photographs;

- Interpretation of available topographic maps;
- Prepare this report with conclusions based on the information obtained during this assessment.

CVD relies on information received from all parties as accurate, unless contradicted by field observations or written documentation.

4.0 RECORDS REVIEW

4.1 General

Available information sources including regulatory databases were assessed in an effort to gain information related to past Site activities, and to address potential environmental issues that may be present at, or in the vicinity of the Site.

4.1.1 Phase I Study Area Determination

A review of the documents listed in Section 4.0 indicates that there are no obvious concerns with any properties outside a 250 m radius of the Site. The study area for the Phase I ESA is therefore determined to be within a 250 m radius of the Site (hereinafter referred to as the "Phase I Study Area").

4.1.2 Site History

A review of available documents and interviews indicates that the Site has historically been residential and agricultural land. The residential properties on-Site were constructed in the 1950s. Aerial photographs from 1955 to 2020 show the Site as a mixed residential and agricultural land use.

4.1.3 Fire Insurance Plans

A review of the Catalogue of Canadian Fire Insurance Plans (FIPs) 1875-1975 was conducted for the Site. However, no coverage for the Site was identified.

4.1.4 Previous Investigations

No previous environmental reports were made available to CVD during the completion of the Phase I ESA.

4.2 Environmental Source Information

A summary of information obtained from available resource documents and from regulatory agency databases is provided as follows.

Inventory of Coal Gasification Plant Waste Sites in Ontario

A review of the Intera Technologies Ltd. Inventory of Coal Gasification Plant Waste Sites in Ontario (April 1987) revealed that the Site and surrounding properties within 250 m have not been used for the gasification of coal.

Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario

A review of the Intera Technologies Ltd. Inventory of Industrial Sites Producing Coal Tars and Related Tars in Ontario (July 1988) revealed that the production and use of coal or other tars has not taken place at the Site or surrounding properties within 250 m.

Ministry of the Environment, Conservation and Parks (MECP) Inventory of PCB Storage Sites in Ontario

The 1998 Inventories of PCB Storage Sites in Ontario indicated the Site and surrounding properties within 250 m have not been registered as PCB storage sites.

MECP Freedom of Information (FOI) Request

A FOI request was submitted to the MECP for information regarding any environmental concerns, orders, spills, investigations/prosecutions, Waste Generator Numbers/Classes and Certificates of Approval related to the Site. However, it can take several weeks to receive a response from the MECP. At the time of writing this report, we have not yet received a response to this request. Any relevant information received from the MECP will be forwarded as an addendum to this report. The FOI request is included in Appendix E.

MECP Brownfields Environmental Site Registry

A review of the Brownfields Environmental Site Registry database indicated that an RSC has not previously been filed on the Site or surrounding properties within 250 meters.

Waste Disposal Site Inventory – Ontario MECP (1991)

The Site is not listed in the MECP's Waste Disposal Inventory. In addition, there are no active or closed landfill sites located within 250 m of the Site.

MECP Hazardous Waste Information Network (HWIN)

A review of the MECP Hazardous Waste Information Network (HWIN) indicates that the Site is not registered with the MECP as a generator of hazardous wastes.

City Directories

No city directories were available for the Site or surrounding properties

ERIS

A records and regulatory agency database review was completed through a database search carried out by ERIS. The ERIS report includes a review of selected public and private database records for the Site and surrounding properties within a 250 m radius of the Site. The report includes a Site diagram and a summary, which describe records that relate directly to the Site and surrounding properties within 250 m.

The following is a list of the database searches completed by ERIS for this assignment.

- Aboveground Storage Tanks (AST)
- Commercial Fuel Oil Tanks (CFOT)
- Fuel Storage Tank (FST)
- Fuel Storage Tank – Historic (FSTH)
- Private and Retail Fuel Storage Tanks (PRT)
- Retail Fuel Storage Tanks (RST)
- Scott's Manufacturing Directory (SCT)
- Ontario Spills (SPL)

The standard select report, dated November 10, 2021, provided no listings for the Site and a total of six-teen (16) listings for properties within a 250 meters radius.

A copy of the ERIS Standard Report is included in Appendix F.

4.3 Physical Setting Sources

4.3.1 Aerial Photographs

Aerial photographs were reviewed for the following years: 1955, 2000, 2010 and 2020. The aerial photographs are graphically illustrated in Appendix C and are summarized in the following table:

Year	***Observations***
1955	Faint outlines of residential properties are observed at the eastern portion of the Site. The rest of the Site is observed to be vacant and/or agricultural land. The surrounding properties to the north and south are shown to be residential land uses. Lastly, the faint outlines of Northside Drive and King Street North are observed towards the east of the Site.
2000	Two (2) residential properties are clearly shown at the eastern portion of the Site. The west of the Site is observed to remain as agricultural. Further residential development is shown towards the north, east and south of the Site. A mix of commercial and industrial development is observed towards the east of the Site, past King Street North.
2010	No discernable changes are noticed on the Site or the surrounding properties within 250 meters.
2020	No discernable changes are noticed on the Site or the surrounding properties within 250 meters.

4.3.2 Topography, Hydrology, Geology

The Atlas of Canada Toporama interactive map was accessed to retrieve spatial data relevant to the Site. Map contours reveal geodetic elevations of the Site to be at ±346 m.a.s.l. (meters above sea level). The local topography slopes in a southeasterly direction. The localized shallow groundwater flow is inferred to follow the local topography and flow in a southeasterly direction towards Conestogo River.

According to the Map 2558, "Quaternary Geology Conestogo Area" the Site is located in a physiographic region that consists of outwash sand – a well sorted, fine sand and/or gravel to coarse sand and/or gravel textured.

According to Map 2544, "Bedrock Geology of Southern Ontario, Southern Sheet," the bedrock in the area generally consists of limestone, dolostone, shale, sandstone, gypsum, and salt of the Salina Formation.

The localized groundwater flow direction is expected to follow the topography and flow in a southeasterly direction.

4.3.3 Fill Materials

Fill material composition and source location are considerations in determining whether environmental concerns are present. Importation of fill of unknown quality is identified as a potential contaminating activity within Ontario Regulation 153/04.

The Site is generally graded evenly with the neighbouring properties. CVD does not expect any deleterious fill material to be present at the Site.

4.3.4 Water Bodies and Areas of Natural Significance

The northwestern portion of the Site is located within a GRCA regulation limit. Additionally, the Upper Conestogo Creek Wetland Complex is located approximately 10 meters towards the northwest of the Site.

In terms of water bodies, one (1) tributary of the Conestogo River is located approximately 300 meters towards the northeast of the Site. Additionally, the Conestogo River is located approximately 680 meters towards the south of the Site.

4.4 Site Operating Records

The Phase I ESA property did not have any Site operation records for review during the Phase I ESA.

5.0 INTERVIEWS

Relevant information gathered from the Site representative has been incorporated into various sections of this report (both previous and proceeding sections).

The information gathered from other individuals and/or regulatory agencies has also been incorporated into various sections of this report (both previous and proceeding sections).

6.0 SITE RECONNAISSANCE

6.1 General Requirements

An assessment of the Site was completed by a CVD representative on November 10, 2021. A complete walkover of the Site and surrounding properties was conducted at the time of the Site reconnaissance.

Photographs documenting the Site taken on the day of the Site reconnaissance, along with written descriptions, can be found in Appendix D.

6.2 Specific Observations at Phase I Property

The Site is an irregular shaped property, approximately 4.26 acres in area, located west of Northside Drive in an area of mixed residential and commercial land uses. The eastern portion of the Site is currently occupied by two (2) residential properties while the western portion of the Site is agricultural.

110 Northside Drive

The property at 110 Northside Drive is currently occupied by a two (2) storey residential building with a single garage at the eastern portion of the property. The building was observed to be heated by natural gas.

The western portion of the property was observed to consist of grassed areas with scattered trees. Access to the Site is provided by a paved driveway located at the southeastern portion of the property.

118 Northside Drive

The property at 118 Northside Drive is currently occupied by a two (2) storey residential building at the northeastern portion of the property. The building was observed to be heated by natural gas. Additionally, two (2) small sheds containing general tools and equipment was observed at the western portion of the property.

The western portion of the property was observed to consist of grassed areas. Access to the Site is provided by a gravelled driveway located at the southeastern portion of the property.

Agricultural property (part of Tract German Company Pt Lot 37 – civic address Twp 24 Rd #S)

The agricultural property at the western portion of the Site was observed to be a vacant green space. The property is approximately 2 acres in area and no road frontage is provided. The property can be accessed through the western portion of 118 Northside Drive

Site photographs are included in Appendix D.

Underground and Aboveground Storage Tanks

Site inspections and interviews were conducted to assess the presence/absence and condition (if present) of underground storage tanks (USTs) and aboveground storage tanks (ASTs) at the Site.

CVD did not observe any evidence of USTs or ASTs during the Site reconnaissance. Prior to natural gas, the residential units on-Site were most likely heated by furnace oil stored in an AST in the basement.

The Technical Standards and Safety Authority (TSSA) was also requested to review their computer database for the Site with regards to registered USTs and ASTs containing petroleum products. The TSSA reported that there are no records for fuel storage at the Site. The TSSA's response is included in Appendix E.

Chemical Inventory, Storage and Handling

No hazardous chemicals were observed during the Site reconnaissance. Based on reported history at the Site, it is unlikely that historical use, storage, or disposal of potentially hazardous chemicals has occurred at the Site.

Solid and Liquid Waste Generation and Disposal

Solid non-hazardous wastes are primarily comprised of household waste. All solid wastes and recyclables are collected and routinely picked up by waste management services. According to the available information, no other solid wastes are generated on-Site.

Liquid wastes generated on-Site are limited primarily to sanitary wastewater generated from the building bathrooms and kitchens. Sanitary wastewater is discharged to the municipal sanitary sewer. According to available resources, no other liquid wastes are generated on-Site.

Designated Substances

In Ontario, the Occupational Health and Safety Act has a list of nearly a dozen substances have been classified as "designated substances" largely in response to their harmful characteristics.

Asbestos Containing Materials

Asbestos is a group of naturally occurring minerals, formerly used for thermal and acoustic insulation, as well as fireproofing. The use of asbestos was common due to its strength and resistance to heat, and is often found in old ceiling tiles, pipe and vessel insulation, blown into structural beams and ceilings, in floor tile, linoleum, and mastic. The use of asbestos building materials was banned in Canada in the late 1970's.

Asbestos is not always an immediate hazard. When asbestos containing materials are disturbed, microscopic fibres become airborne and may be inhaled by humans, where it may cause cancer and lung disease.

Based on the age of the ages of the residences on the Site (1950s), there is a potential for ACMs to be present in the original building materials.

Lead Based Paint

Lead is a highly toxic metal which, when present in the human body (in sufficient quantities), attacks the central nervous system and can result in numerous health problems. Lead-based paints have not been used since the late 1970's, when the U.S. Department of Housing and Urban Development (HUD) banned it for use in all homes and most other buildings.

Based on the age of the ages of the residences on the Site (1950s), there is a potential for lead based paints to be present in the original building materials.

Other Designated Substances

Thermostats in the building may contain small amounts of mercury. CVD did not observe any other designated or hazardous substances at the Site.

6.3 Surrounding Properties Phase I Study Area

Land uses currently and historically surrounding the Site are described below:

North of the Site:

Adjacent to north of the Site are residential land uses.

According to available research resources, land uses to the north of the Site have historically been residential and agricultural.

East of the Site:

Adjacent to the east of the Site is Northside Drive, beyond which are residential land uses followed by King Street North and a mix of commercial and industrial land uses.

According to available resources, properties to the east of the Site have historically been agricultural and commercial

South of the Site:

Adjacent to the south of the Site are residential land uses.

According to available resources, properties to the south of the Site have historically been residential and agricultural.

West of the Site:

Adjacent to the west of the Site are large fields of agricultural areas.

According to available resources, properties to the west of the Site have historically been agricultural.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Current and Past Uses on the Phase I Property

A review of available documents and interviews indicates that the Site has historically been residential and agricultural land. Aerial photographs from 1955 to 2020 show the Site as a mixed residential and agricultural land use.

7.2 Potential Contaminating Activities (PCAs)

Potentially contaminating activities (PCAs) are a use or activity set out in Column A of Table 2 of Schedule D within Ontario Regulation 153/04 that is occurring or has occurred at the Site and/or surrounding properties within 250 m of the Site.

PCAs identified on the Site and surrounding properties are listed in the following table.

PCA	*Location*	*Description*	*Evaluation*
1	1600 King Street North	PCA No. 43 – Plastics (including fiberglass) manufacturing and processing	Based on the ERIS report, the property at 1600 King Street North used to be occupied D & D Mould Pattern & Die Machine. The company was registered as a plastics product manufacturer and a metalworking machinery manufacturer in the Scott's Manufacturing Directory. Based on a separation distance of approximately 100 meters and inferred downgradient location in terms of groundwater flow, the property is not considered to be an environmental concern to the Site at this time.
		PCA No. 32 – Iron and steel manufacturing and processing	

2	1637 King Street North	PCA No. 10 – Commercial auto body shops	Based on the ERIS report, the property at 1637 King Street North was previously occupied by Hortsy's Welding Ltd. Hortsy's welding was registered as endeavouring in automotive repair and maintenance. Based on a separation distance of approximately 150 meters, the property is not considered to be an environmental concern to the Site at this time.

7.3 Areas of Potential Environmental Concern (APECs)

Areas of potential environmental concern (APECs) are defined within the amended Ontario Regulation 153/04 (amended regulation) as those on, in or under a phase one property where one or more contaminants are potentially present.

APECs are related to potentially contaminating activities set out and numbered in Column A of Table 2 of Schedule D in the amended regulation as well as other activities not listed as PCAs in Schedule D. PCAs identified within the Phase I ESA Study Area are outlined in Section 7.2 of this report.

There were no APECs identified on the Site.

8.0 CONCLUSIONS

CVD was retained to conduct a Phase I ESA of the residential properties located at 110 & 118 Northside Drive and the adjoining agricultural property located in St. Jacobs, Ontario. The purpose of the Phase I ESA is to evaluate the environmental conditions of the Site and adjacent properties and to identify actual or potential sources of contamination associated with the Site and surrounding properties.

The findings of the Phase I ESA did not identify any actual sources of contamination on the Site. Potentially contaminating activities (PCAs) associated with the surrounding properties were identified, however, based on separation distances and inferred trans or down gradient locations in terms of groundwater flow, CVD considers the environmental liabilities of the PCAs to be low.

It is CVD's professional opinion that the potential for environmental liabilities associated with the Site under investigation is low, and that no further investigations are required at this time. This opinion is based on the following:

- The Site does not appear to have ever been used for any land use that may produce, store, or dispose of large quantities of environmentally hazardous materials.

- The surrounding properties are not expected to pose an environmental concern for the Site. Past activities on the surrounding properties are not expected to pose an environmental concern for the Site.

To address potential operational / management issues, CVD offers the following recommendations:

- Appropriate management plans should be prepared for potential asbestos containing materials (ACMs), and lead-based paints if repair, renovation, or demolition activities are planned for the building in the future.

9.0 STUDY LIMITATIONS

CVD has prepared this report for the exclusive use of 1604964 Ontario Inc and 1553743 Ontario Ltd in evaluating the environmental conditions of the Site at the time of CVD's Site reconnaissance. CVD will not be responsible for the use of this report by any third party, or reliance on or any decision to be made based on it without the prior written consent of CVD. CVD accepts no responsibility for damages, if any, by any third party as a result of decisions or actions based on this report.

This report presents an overview of issues of environmental concern, reflecting CVD's best judgment using information reasonably available at the Site at the time of CVD's Site reconnaissance. CVD has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were concealed or not fully disclosed to CVD at the time of the Site visit.

We trust that the above report is complete within our terms of reference. If there are any questions concerning this matter, please do not hesitate to contact our office.

Respectfully submitted,
CHUNG & VANDER DOELEN ENGINEERING LTD.

Andres Leal, B.Eng. Env
Environmental Scientist

Michael J. Lefebvre, P. Geo.
Senior Manager, Environmental Services

10.0 REFERENCES

The following documents, maps, or other publications may have been used in the preparation of this report.

- Intera Technologies Ltd., "Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario," July 1988.
- Ministry of Northern Development and Mines, Map 2544, "Bedrock Geology of Southern Ontario – Southern Sheet," 1991.
- Ministry of Northern Development and Mines, Map 2558 "Quaternary Geology Conestogo Area" 1993.
- Ontario Ministry of the Environment, "Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario," November 1998.
- Ontario Ministry of the Environment, "Ontario Inventory of Approved PCB Storage Sites," September 1998.
- Ontario Ministry of the Environment, "Waste Disposal Site Inventory," June 1991.
- Phase I Environmental Site Assessment Canadian Standards Association (CSA) Z768-01 (R2012).
- Technical Standards and Safety Act, 2000 (S.O. 2000, Chapter 16). Retrieved from Government of Ontario e-laws website: http://www.e-laws.gov.on.ca/

APPENDIX A
KEY PLAN



LEGEND

Approximate Site Boundary - - - - -

CHUNG & VANDER DOELEN
ENGINEERING LTD.
311 Victoria Street North
Kitchener / Ontario / N2H 5E1
519-742-8979

N
W E
S

KEY PLAN **110 & 118 NORTHSIDE DRIVE** **ST JACOBS, ONTARIO**	**Date:**	**Nov. 2021**
	Scale:	**NTS**
	File No.:	**E21379**
	Appendix:	**A**

APPENDIX B
SITE PLAN



LEGEND

Approximate Site Boundary - - - - -

CHUNG & VANDER DOELEN
ENGINEERING LTD.
311 Victoria Street North
Kitchener / Ontario / N2H 5E1
519-742-8979

N
W E
S

SITE PLAN B-1 **110 & 118 NORTHSIDE DRIVE** **ST JACOBS, ONTARIO**	**Date:**	**Nov. 2021**
	Scale:	**NTS**
	File No.:	**E21379**
	Appendix:	**B**



LEGEND

Approximate Site Boundary - - - - -

CHUNG & VANDER DOELEN
ENGINEERING LTD.
311 Victoria Street North
Kitchener / Ontario / N2H 5E1
519-742-8979

N
W E
S

SITE PLAN B-2 **110 & 118 NORTHSIDE DRIVE** **ST JACOBS, ONTARIO**	**Date:**	**Nov. 2021**
	Scale:	**NTS**
	File No.:	**E21379**
	Appendix:	**B**

APPENDIX C
AERIAL PHOTOGRAPHS



LEGEND

Approximate Site Boundary

CHUNG & VANDER DOELEN
ENGINEERING LTD.
311 Victoria Street North
Kitchener / Ontario / N2H 5E1
519-742-8979

N
W E
S

AERIAL PHOTOGRAPH - 1955

110 & 118 NORTHSIDE DRIVE

ST JACOBS, ONTARIO

Date:	Nov. 2021
Scale:	NTS
File No.:	E21379
Appendix:	C



LEGEND

Approximate Site Boundary

CHUNG & VANDER DOELEN
ENGINEERING LTD.
311 Victoria Street North
Kitchener / Ontario / N2H 5E1
519-742-8979

N
W E
S

AERIAL PHOTOGRAPH - 1980 110 & 118 NORTHSIDE DRIVE ST JACOBS, ONTARIO	Date:	Nov. 2021
	Scale:	NTS
	File No.:	E21379
	Appendix:	C



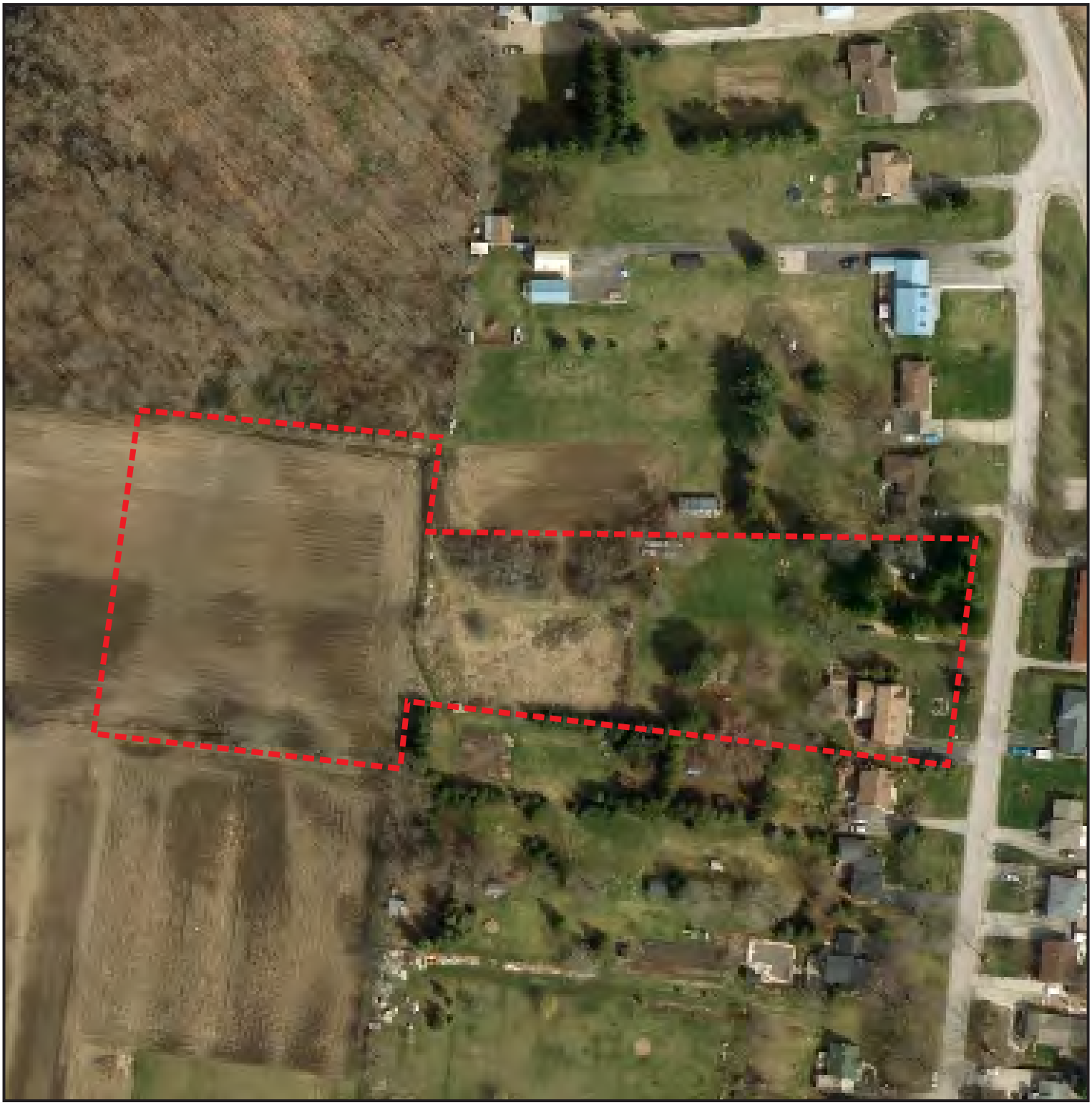
LEGEND

Approximate Site Boundary

CHUNG & VANDER DOELEN
ENGINEERING LTD.
311 Victoria Street North
Kitchener / Ontario / N2H 5E1
519-742-8979

N
W E
S

AERIAL PHOTOGRAPH - 2000 110 & 118 NORTHSIDE DRIVE ST JACOBS, ONTARIO	Date: Nov. 2021 Scale: NTS File No.: E21379 Appendix: C



LEGEND

Approximate Site Boundary

CHUNG & VANDER DOELEN
ENGINEERING LTD.
311 Victoria Street North
Kitchener / Ontario / N2H 5E1
519-742-8979

N
W E
S

AERIAL PHOTOGRAPH - 2010 110 & 118 NORTHSIDE DRIVE ST JACOBS, ONTARIO	Date:	Nov. 2021
	Scale:	NTS
	File No.:	E21379
	Appendix:	C



LEGEND

Approximate Site Boundary

CHUNG & VANDER DOELEN
ENGINEERING LTD.
311 Victoria Street North
Kitchener / Ontario / N2H 5E1
519-742-8979

N
W E
S

AERIAL PHOTOGRAPH - 2020 110 & 118 NORTHSIDE DRIVE ST JACOBS, ONTARIO	Date: Nov. 2021 Scale: NTS File No.: E21379 Appendix: C

APPENDIX D
SITE PHOTOGRAPHS



Photograph 1: Eastern side of the building at 110 Northside Drive looking west



Photograph 2: Northern side of the building at 110 Northside Drive looking south



Photograph 3: Southern side of the building at 110 Northside Drive looking east



Photograph 4: Eastern side of the building at 118 Northside Drive looking west



Photograph 5: Southern side of the building at 118 Northside Drive looking north



Photograph 6: Western side of the building at 118 Northside Drive looking northeast



Photograph 7: View of the agricultural land at the western side of the Site looking northwest



Photograph 8: View of the agricultural land at the western side of the Site looking west

APPENDIX E
CORRESPONDENCE

Please fill the following form.

Ontario

Use this form to:

- submit and pay for a new FOI request for access to records/information about a property
- pay for a deposit or a final fee on an existing FOI request

Fields marked with an asterisk (*) are mandatory.

Are you: *

- [x] Submitting a new FOI Request for Property Information
- [ ] Paying a deposit or final fee for an existing FOI Request for Property Information

Edit Section

Time Period for Records Requested

From (yyyy/mm/dd) * 1986/01/01

To (yyyy/mm/dd) * 2021/11/05

Type of Record(s) *

- [x] All environmental records relating to the identified property/site exclusive of Environmental Approvals and Registratio
- [x] Environmental Approvals and Registrations (e.g. Environmental Compliance Approvals; Certificate of Approval; Rene Energy Approvals; Environmental Activity and Sector Registry Registrations)

  Select only if you are seeking access to an Approval or Registration that is not publicly available or if you are also see supporting documents relating to the Approval or Registration.

  Operator and vendor Pesticide Licenses from September 4, 2018, final Approvals and Registrations are publicly avail the Access Environment website at:
  https://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en.

  Records of Site Condition (RSC) records are publicly available on the Brownfields Environmental Site Registry (BSEF

  - RSC records between 2004 to June 30, 2011 are available at: https://www.lrcsde.lrc.gov.on.ca/besrWebPublic/generalSearch
  - RSC records filed after July 2011 are available at: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/earchFiledRsc_search?request_locale=en

- [ ] Other Specific Document(s)

Type of Approval/Registration *

Please fill the following form.

- [ ] Drinking Water Licenses
- [x] Pesticide Licenses

  Only pesticide licenses post September 2018 are available. Prior to September 2018, only Pesticide license applicatic supporting documentation is available

  - [ ] No Supporting Documents
  - [x] All Supporting Documents
  - [ ] Some Supporting Documents
- [ ] Permits to Take Water
- [ ] Noise Vibrations Approvals/Registrations
- [ ] Air Emissions Approvals/Registrations
- [x] Water Approvals/Registrations - Ontario Water Resources Commission, treatment, ground level, standpipes & elevat storage, pumping stations (local & booster), mains
  - [ ] No Supporting Documents
  - [x] All Supporting Documents
  - [ ] Some Supporting Documents
- [x] Sewage – Treatment, Stormwater, Storm, Leachate & Lieachate Treatment & Sewage pump stations, Sanitary
  - [ ] No Supporting Documents
  - [x] All Supporting Documents
  - [ ] Some Supporting Documents
- [x] Waste Water - Industrial discharge
  - [ ] No Supporting Documents
  - [x] All Supporting Documents
  - [ ] Some Supporting Documents
- [x] Waste Sites - Disposal, Landfill sites, Transfer stations, Processing sites, Incinerator sites
  - [ ] No Supporting Documents
  - [x] All Supporting Documents
  - [ ] Some Supporting Documents
- [x] Waste Management Systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, Polychlorinated Biphenyls (PCBs) storage, transfer or destruction, Waste Generator Systems)
  - [ ] No Supporting Documents
  - [x] All Supporting Documents
  - [ ] Some Supporting Documents

  Company Name
- [x] Waste Generator Registration - number/class

List any record(s) that should be excluded from the scope of your request (e.g. email correspondences; records originatin from your organization/business; records already in your possession, prior year(s) annual reports for approvals)

Please provide any additional relevant information relating to your request. For example, does your request relate to any ministry business? Please note that this information is being requested only in order to provide contextual information to t Access and Privacy Office and will not in any way affect or expedite the status of any related ministry business identified.

Edit Section

Please fill the following form.

Leal | Andres

Business/Organization Name (if applicable or indicate “N/A”) *

Chung & Vander Doelen Engineering Ltd

Project/Reference Number (if applicable)

E21379

Are you submitting this request on behalf of a client? *

☐ Yes ☑ No

Mailing Address

Unit Number | Street Number * | Street Name *

311 | Victoria Street North

PO Box | City/Town * | Province * | Postal Cod

Kitchener | ON | N2H 5E1

Telephone Number * | ext. | Email Address *

519-742-8979 | andres.leal@cvdengineering.com

Is there an alternate contact (e.g. office admin)? *

☐ Yes ☑ No

Edit Section

Is the property a:

☐ Park ☐ Lake ☐ First Nation Band ☐ Wind Farm ☐ Federal Land ☐ Island ☐ Unsurveyed Land

Are you requesting information about multiple addresses? *

☑ Yes ☐ No

Please only submit a request with multiple addresses if the property is one site. To be considered one site, addresses be adjacent to each other and owned by the same owner(s).

Do the multiple addresses belong to one site? *

☑ Yes ☐ No

Site Name

110 & 118 Northside Drive

Property Address

Address 1

Unit Number | Street Number | Street Name

110 | Northside Drive

Full Lot Number | Concession | Geographic Township

City/Town/Village *

St Jacobs

Closest Intersection

Please fill the following form.

Address 2

Unit Number | Street Number | Street Name

	118	Northside Drive

Full Lot Number | Concession | Geographic Township

City/Town/Village *

St Jacobs

Closest Intersection

Edit Section

Do you want the ministry to search all prior historical addresses for this property/site for the time period of the records requested? *

☐ Yes ☑ No

Edit Section

Please provide all present and previous property owner and/or tenant names for the search years requested.

Current Property Owner/Tenant

Address 1

110 Northside Drive
St Jacobs

Owner Name: Mike Gilles | Date of Ownership (yyyy/m

Tenant Name:

Address 2

118 Northside Drive
St Jacobs

Owner Name: Mike Gilles | Date of Ownership (yyyy/m

Tenant Name:

Please fill the following form.

Please upload any documents (e.g. Maps) that are relevant to your FOI request.

The total size of all attachments must not be more than 8 MB.

1. File Name

2020 Aerial.pdf

Total File Size

0.92 MB

Edit Section

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Andres Leal

From: Public Information Services <publicinformationservices@tssa.org>
Sent: November 11, 2021 10:15 AM
To: Andres Leal
Subject: RE: Inquiry: 110 and 118 Northside Drive in St Jacobs, Ontario - N0B 2N0

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

NO RECORD FOUND

Hello,

Thank you for your request for confirmation of public information.

- We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationservices@tssa.org along with a fee of $56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard).

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Mariah

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Andres Leal
<andres.leal@cvdengineering.com>
Sent: November 10, 2021 3:08 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Inquiry: 110 and 118 Northside Drive in St Jacobs, Ontario - N0B 2N0

[CAUTION]: This email originated outside the organisation.
Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Hello,

Chung & Vander Doelen Engineering Ltd. is working on a Phase one environmental assessment for the properties located at 110 and 118 Northside Drive in St. Jacobs, Ontario – N0B 2N0.

As part of my research, I would appreciate if the TSSA could provide any information regarding fuel storage tanks (past or present), fuel distribution, TSSA orders, or spills at the properties.

Thank you,

ANDRES LEAL B.Eng. Env
ENVIRONMENTAL SCIENTIST
CHUNG & VANDER DOELEN ENGINEERING LTD.
311 VICTORIA STREET NORTH / KITCHENER / ONTARIO / N2H 5E1
O 519 742 8979
E Andres.leal@cvdengineering.com

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APPENDIX F
ERIS REPORT

DATABASE REPORT

Project Property:	*110 & 118 Northside Drive* *110 & 118 Northside Drive* *St. Jacobs ON N0B 2N0*
Project No:	*E21379*
Report Type:	*Standard Select Report*
Order No:	*21110500238*
Requested by:	*Chung & Vander Doelen Engineering Ltd.*
Date Completed:	*November 10, 2021*

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

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Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

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Executive Summary

Property Information:

Project Property: *110 & 118 Northside Drive*
110 & 118 Northside Drive St. Jacobs ON N0B 2N0

Project No: *E21379*

Coordinates:

Latitude:	*43.5480254*
Longitude:	*-80.553608*
UTM Northing:	*4,821,771.79*
UTM Easting:	*536,059.66*
UTM Zone:	*17T*

Elevation: *1,135 FT*
345.86 M

Order Information:

Order No: *21110500238*
Date Requested: *November 5, 2021*
Requested by: *Chung & Vander Doelen Engineering Ltd.*
Report Type: *Standard Select Report*

Historical/Products:

Executive Summary: Report Summary

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

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	Fuel Oil Spills and Leaks	N	-	-	-
LIMO	Landfill Inventory Management Ontario	N	-	-	-
MINE	Canadian Mine Locations	N	-	-	-
MNR	Mineral Occurrences	N	-	-	-
NATE	National Analysis of Trends in Emergencies System (NATES)	N	-	-	-
NCPL	Non-Compliance Reports	N	-	-	-
NDFT	National Defense & Canadian Forces Fuel Tanks	N	-	-	-
NDSP	National Defense & Canadian Forces Spills	N	-	-	-
NDWD	National Defence & Canadian Forces Waste Disposal Sites	N	-	-	-
NEBI	National Energy Board Pipeline Incidents	N	-	-	-
NEBP	National Energy Board Wells	N	-	-	-
NEES	National Environmental Emergencies System (NEES)	N	-	-	-
NPCB	National PCB Inventory	N	-	-	-
NPRI	National Pollutant Release Inventory	N	-	-	-
OGWE	Oil and Gas Wells	N	-	-	-
OOGW	Ontario Oil and Gas Wells	N	-	-	-
OPCB	Inventory of PCB Storage Sites	N	-	-	-
ORD	Orders	N	-	-	-
PAP	Canadian Pulp and Paper	N	-	-	-
PCFT	Parks Canada Fuel Storage Tanks	N	-	-	-
PES	Pesticide Register	N	-	-	-
PINC	Pipeline Incidents	N	-	-	-
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	N	-	-	-
REC	Ontario Regulation 347 Waste Receivers Summary	N	-	-	-
RSC	Record of Site Condition	N	-	-	-
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	6	6
SPL	Ontario Spills	Y	0	5	5
SRDS	Wastewater Discharger Registration Database	N	-	-	-
TANK	Anderson's Storage Tanks	N	-	-	-
TCFT	Transport Canada Fuel Storage Tanks	N	-	-	-
VAR	Variances for Abandonment of Underground Storage Tanks	N	-	-	-
WDS	Waste Disposal Sites - MOE CA Inventory	N	-	-	-
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	N	-	-	-
WWIS	Water Well Information System	N	-	-	-
		Total:	0	16	16

Executive Summary: Site Report Summary - Project Property

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

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

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	SCT	Red Coral Inc.	1600 King St N St. Jacobs ON	ESE/175.0	-1.00	14
1	SCT	D & D Mould Pattern & Die Machine	1600 King St N Unit 22 St. Jacobs ON	ESE/175.0	-1.00	14
1	SCT	CRV Computer	1600 King St N Unit 11 St Jacobs ON N0B 2N0	ESE/175.0	-1.00	14
1	SCT	D & D Mould & Die (2003)	1600 King St N Unit 22 St Jacobs ON N0B 2N0	ESE/175.0	-1.00	15
1	SCT	Manufacturers Automation Inc.	1600 King St N St Jacobs ON N0B 2N0	ESE/175.0	-1.00	15
1	GEN	The Crack Specialists	1600 King Street North, Unit #18, #19, #20 St. Jacobs ON N0B 2N0	ESE/175.0	-1.00	15
1	GEN	The Crack Specialists	1600 King Street North, Unit #18, #19, #20 St. Jacobs ON N0B 2N0	ESE/175.0	-1.00	16
2	SPL	The Regional Municipality of Waterloo	74 Northside Dr Woolwich ON	S/191.9	0.31	16
2	SPL	The Regional Municipality of Waterloo	74 Northside Dr Woolwich ON	S/191.9	0.31	16
2	SPL	The Regional Municipality of Waterloo	74 Northside Dr Woolwich ON	S/191.9	0.31	17
2	SPL	The Regional Municipality of Waterloo	74 North Side Dr. Woolwich ON	S/191.9	0.31	17
3	GEN	Hortsy's Welding Ltd.	1637 King Street North St.Jacobs ON N0B 2N0	N/194.3	-2.31	18

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
3	GEN	Hortsy's Welding Ltd.	1637 King Street North St.Jacobs ON N0B 2N0	N/194.3	-2.31	18
3	GEN	Hortsy's Welding Ltd.	1637 King Street North St.Jacobs ON N0B 2N0	N/194.3	-2.31	18
4	SPL	FRY HATCHERY	80 NORTHSIDE DRIVE ST. JACOBS 80 NORTHSIDE DRIVE ST. JACOBS WOOLWICH TWP. ON	SSW/211.5	1.00	19
5	SCT	Mechdyne Corporation Canada	1580 King St N Unit B2 St Jacobs ON N0B 2N0	ESE/233.2	-1.00	19

Executive Summary: Summary By Data Source

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Apr 30, 2021 has found that there are 5 GEN site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
The Crack Specialists	1600 King Street North, Unit #18, #19, #20 St. Jacobs ON N0B 2N0	ESE	174.95	1
The Crack Specialists	1600 King Street North, Unit #18, #19, #20 St. Jacobs ON N0B 2N0	ESE	174.95	1
Hortsy's Welding Ltd.	1637 King Street North St.Jacobs ON N0B 2N0	N	194.31	3
Hortsy's Welding Ltd.	1637 King Street North St.Jacobs ON N0B 2N0	N	194.31	3
Hortsy's Welding Ltd.	1637 King Street North St.Jacobs ON N0B 2N0	N	194.31	3

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 6 SCT site(s) within approximately 0.25 kilometers of the project property.

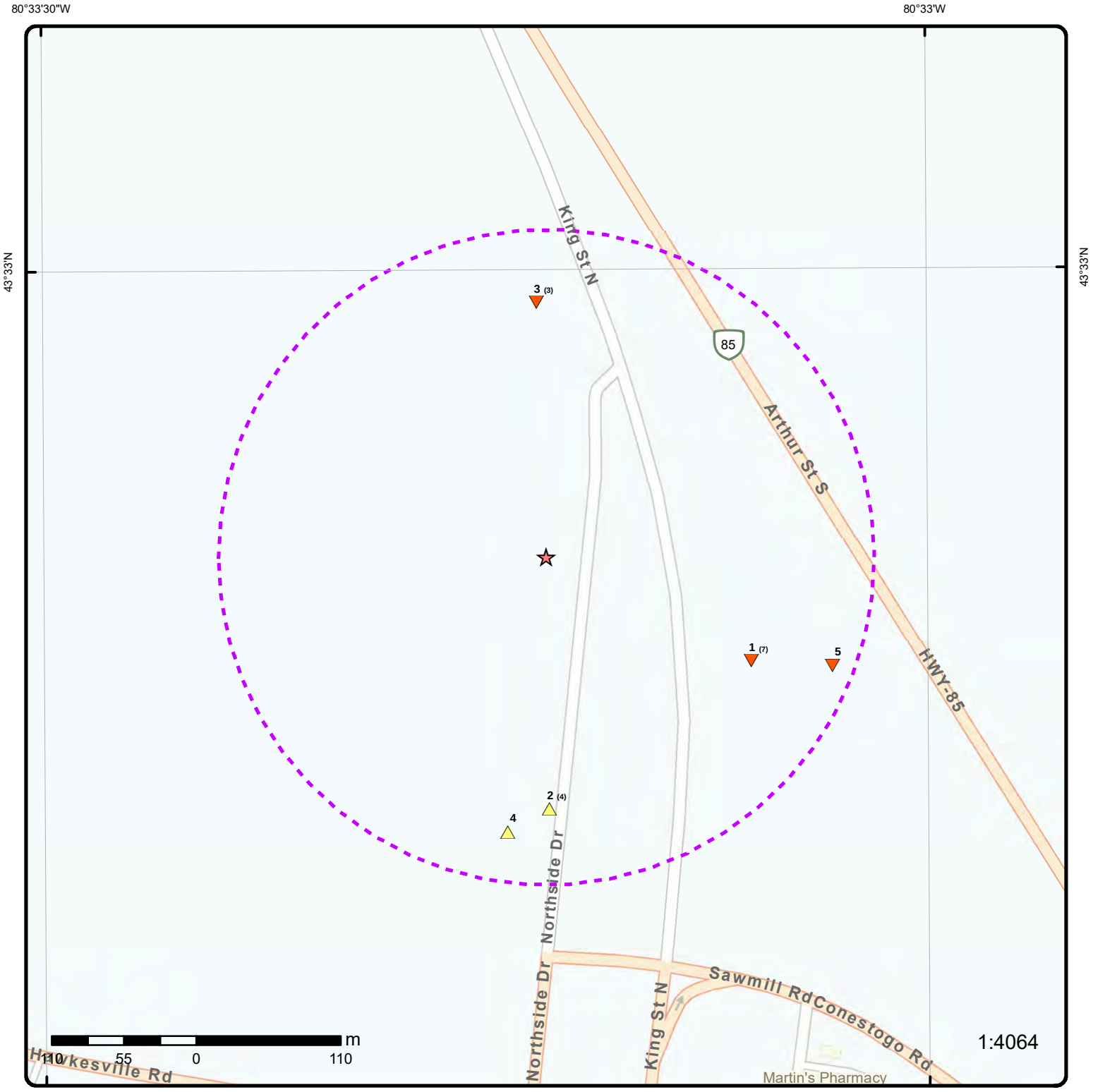
Lower Elevation	Address	Direction	Distance (m)	Map Key
Manufacturers Automation Inc.	1600 King St N St Jacobs ON N0B 2N0	ESE	174.95	1
D & D Mould & Die (2003)	1600 King St N Unit 22 St Jacobs ON N0B 2N0	ESE	174.95	1
CRV Computer	1600 King St N Unit 11 St Jacobs ON N0B 2N0	ESE	174.95	1

Red Coral Inc.	1600 King St N St. Jacobs ON	ESE	174.95	1
D & D Mould Pattern & Die Machine	1600 King St N Unit 22 St. Jacobs ON	ESE	174.95	1
Mechdyne Corporation Canada	1580 King St N Unit B2 St Jacobs ON N0B 2N0	ESE	233.20	5

SPL - Ontario Spills

A search of the SPL database, dated 1988-Aug 2020 has found that there are 5 SPL site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
The Regional Municipality of Waterloo	74 Northside Dr Woolwich ON	S	191.91	2
The Regional Municipality of Waterloo	74 Northside Dr Woolwich ON	S	191.91	2
The Regional Municipality of Waterloo	74 North Side Dr. Woolwich ON	S	191.91	2
The Regional Municipality of Waterloo	74 Northside Dr Woolwich ON	S	191.91	2
FRY HATCHERY	80 NORTHSIDE DRIVE ST. JACOBS 80 NORTHSIDE DRIVE ST. JACOBS WOOLWICH TWP. ON	SSW	211.51	4



Map: 0.25 Kilometer Radius

Order Number: 21110500238

Address: 110 & 118 Northside Drive, St. Jacobs, ON

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail
- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership



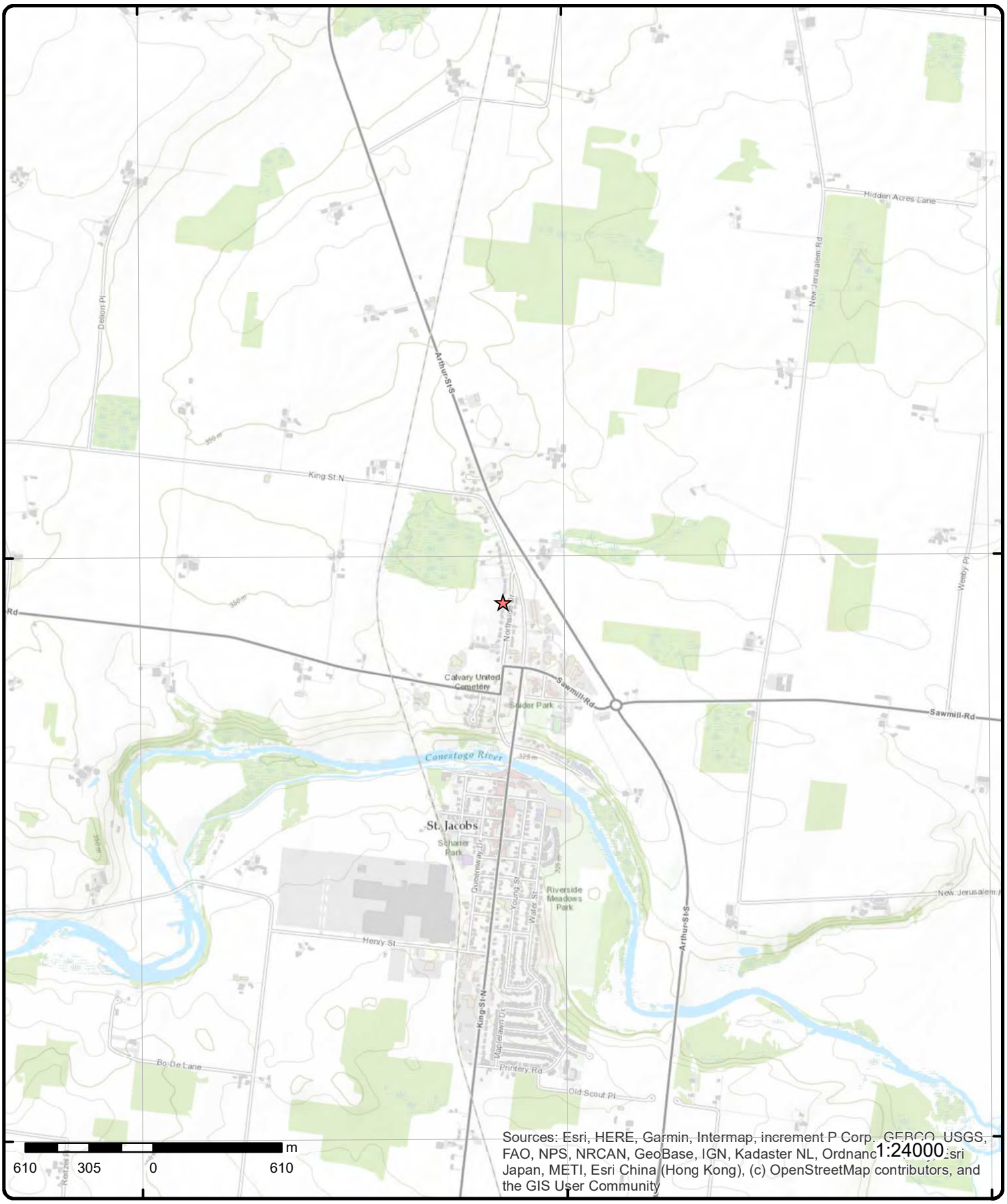
Aerial **Year: 2020**

Order Number: 21110500238

Address: 110 & 118 Northside Drive, St. Jacobs, ON

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Order Number: 21110500238

Address: 110 & 118 Northside Drive, ON

Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 7	ESE/175.0	344.9 / -1.00	Red Coral Inc. 1600 King St N St. Jacobs ON	SCT

Established: 1987
Plant Size (ft²):
Employment: 19

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 7	ESE/175.0	344.9 / -1.00	D & D Mould Pattern & Die Machine 1600 King St N Unit 22 St. Jacobs ON	SCT

Established: 1985
Plant Size (ft²): 3200
Employment: 6

--Details--
Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Description: Machine Shops
SIC/NAICS Code: 332710

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Industrial Mould Manufacturing
SIC/NAICS Code: 333511

Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Description: All Other Miscellaneous Manufacturing
SIC/NAICS Code: 339990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	3 of 7	ESE/175.0	344.9 / -1.00	CRV Computer 1600 King St N Unit 11 St Jacobs ON N0B 2N0	SCT

Established: 01-JAN-90
Plant Size (ft²): 1250
Employment:

--Details--
Description: Computer and Software Stores
SIC/NAICS Code: 443120

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	4 of 7	ESE/175.0	344.9 / -1.00	D & D Mould & Die (2003) 1600 King St N Unit 22 St Jacobs ON N0B 2N0	SCT

Established: 1985
Plant Size (ft²): 3200
Employment: 6

--Details--
Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Description: Machine Shops
SIC/NAICS Code: 332710

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Industrial Mould Manufacturing
SIC/NAICS Code: 333511

Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Description: All Other Miscellaneous Manufacturing
SIC/NAICS Code: 339990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	5 of 7	ESE/175.0	344.9 / -1.00	Manufacturers Automation Inc. 1600 King St N St Jacobs ON N0B 2N0	SCT

Established: 01-SEP-83
Plant Size (ft²):
Employment:

--Details--
Description: Wholesale Trade Agents and Brokers
SIC/NAICS Code: 419120

Description: Wholesale Trade Agents and Brokers
SIC/NAICS Code: 419120

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	6 of 7	ESE/175.0	344.9 / -1.00	The Crack Specialists 1600 King Street North, Unit #18, #19, #20 St. Jacobs ON N0B 2N0	GEN

Generator No: ON8998491
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

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

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	7 of 7	ESE/175.0	344.9 / -1.00	The Crack Specialists 1600 King Street North, Unit #18, #19, #20 St. Jacobs ON N0B 2N0	GEN

Generator No:	ON8998491	**PO Box No:**	
Status:	Registered	**Country:**	Canada
Approval Years:	As of Apr 2021	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	146 L
Waste Class Desc:	Other specified inorganic sludges, slurries or solids

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 4	S/191.9	346.2 / 0.31	The Regional Municipality of Waterloo 74 Northside Dr Woolwich ON	SPL

Ref No:	2814-895K5S	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:		**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Overflow (Tanks Lagoons)	**Sector Type:**	Other
Incident Event:		**Agency Involved:**	
Contaminant Code:	99	**Nearest Watercourse:**	
Contaminant Name:	CHLORINATED WATER	**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Not Anticipated	**Site Municipality:**	
Nature of Impact:	Surface Water Pollution	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	NA
MOE Response:	No Field Response	**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	9/9/2010	**Site Map Datum:**	
Dt Document Closed:	9/15/2010	**SAC Action Class:**	Watercourse Spills
Incident Reason:	Equipment Failure - Malfunction of system components	**Source Type:**	
Site Name:	St. Jacobs Booster Station		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Region of Waterloo: Potable water to creek		
Contaminant Qty:	0 other - see incident description		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	2 of 4	S/191.9	346.2 / 0.31	The Regional Municipality of Waterloo 74 Northside Dr Woolwich ON	SPL

Ref No:	4282-8V2TTE	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	07-JUN-12	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Other Discharges	**Sector Type:**	Water Supply
Incident Event:		**Agency Involved:**	
Contaminant Code:	99	**Nearest Watercourse:**	
Contaminant Name:	CHLORINATED WATER	**Site Address:**	74 Northside Dr
Contaminant Limit 1:		**Site District Office:**	

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

Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Confirmed	**Site Municipality:**	Woolwich
Nature of Impact:	Soil Contamination	**Site Lot:**	
Receiving Medium:	Sewage - Municipal/Private and Commercial	**Site Conc:**	
Receiving Env:		**Northing:**	NA
MOE Response:	No Field Response	**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	07-JUN-12	**Site Map Datum:**	
Dt Document Closed:	25-JUL-12	**SAC Action Class:**	Land Spills
Incident Reason:	Other - Reason not otherwise defined	**Source Type:**	
Site Name:	St. Jacobs Booster Station		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Chlorinated Water from Pump Stn to Land and/or creek		
Contaminant Qty:			

2	*3 of 4*	*S/191.9*	*346.2 / 0.31*	***The Regional Municipality of Waterloo*** ***74 Northside Dr*** ***Woolwich ON***	***SPL***

Ref No:	0762-9FGRKT	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	2014/01/18	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Overflow/Surcharge	**Sector Type:**	Water Supply
Incident Event:		**Agency Involved:**	
Contaminant Code:	99	**Nearest Watercourse:**	
Contaminant Name:	WATER	**Site Address:**	74 Northside Dr
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Not Anticipated	**Site Municipality:**	Woolwich
Nature of Impact:	Other Impact(s)	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	NA
MOE Response:	No Field Response	**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2014/01/18	**Site Map Datum:**	
Dt Document Closed:	2014/02/06	**SAC Action Class:**	Land Spills
Incident Reason:	Equipment Failure	**Source Type:**	
Site Name:	St. Jacobs Booster Station		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	St. Jacobs DW Reservoir: dechlor drinking water to cb		
Contaminant Qty:	48000 L		

2	*4 of 4*	*S/191.9*	*346.2 / 0.31*	***The Regional Municipality of Waterloo*** ***74 North Side Dr.*** ***Woolwich ON***	***SPL***

Ref No:	2460-AWFCZN	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2018/03/01	**Health/Env Conseq:**	0 - No Impact
Year:		**Client Type:**	Municipal Government
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Overflow/Surcharge	**Agency Involved:**	
Contaminant Code:	99	**Nearest Watercourse:**	
Contaminant Name:	WATER	**Site Address:**	74 North Side Dr.
Contaminant Limit 1:		**Site District Office:**	Guelph
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	n/a	**Site Region:**	West Central

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

Environment Impact:		**Site Municipality:**	Woolwich
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	4821596.93
MOE Response:	No	**Easting:**	535944.66
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2018/03/01	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Land Spills
Incident Reason:	Power Interruption/Loss	**Source Type:**	Water Supply
Site Name:	74 North Side Dr.<UNOFFICIAL>		
Site County/District:	Regional Municipality of Waterloo		
Site Geo Ref Meth:			
Incident Summary:	Region of Waterloo: Unknown amount of potable water to catch basin		
Contaminant Qty:	0 other - see incident description		

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3 **1 of 3** **N/194.3** **343.6 / -2.31** **Hortsy's Welding Ltd.**
1637 King Street North
St.Jacobs ON N0B 2N0
GEN

Generator No:	ON4828939	**PO Box No:**	
Status:		**Country:**	
Approval Years:	07,08	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	811199		
SIC Description:	All Other Automotive Repair and Maintenance		

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

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3 **2 of 3** **N/194.3** **343.6 / -2.31** **Hortsy's Welding Ltd.**
1637 King Street North
St.Jacobs ON N0B 2N0
GEN

Generator No:	ON4828939	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2009	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	811199		
SIC Description:	All Other Automotive Repair and Maintenance		

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

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3 **3 of 3** **N/194.3** **343.6 / -2.31** **Hortsy's Welding Ltd.**
1637 King Street North
St.Jacobs ON N0B 2N0
GEN

Generator No:	ON4828939	**PO Box No:**	
Status:		**Country:**	

Approval Years:	2010	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	811199		
SIC Description:	All Other Automotive Repair and Maintenance		

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

4 | ***1 of 1*** | ***SSW/211.5*** | ***346.9 / 1.00*** | ***FRY HATCHERY***
80 NORTHSIDE DRIVE ST. JACOBS 80
NORTHSIDE DRIVE ST. JACOBS
WOOLWICH TWP. ON | ***SPL***

Ref No:	51292	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	5/22/1991	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	ABOVE-GROUND TANK LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	CONFIRMED	**Site Municipality:**	25604
Nature of Impact:	Soil contamination	**Site Lot:**	
Receiving Medium:	LAND	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	MCCR, R.M.
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	5/28/1991	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	MATERIAL FAILURE	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	FRY HATCHERY: 1 000 L GASTO GROUND FROM LEAKY STORAGE TANK		
Contaminant Qty:			

5 | ***1 of 1*** | ***ESE/233.2*** | ***344.9 / -1.00*** | ***Mechdyne Corporation Canada***
1580 King St N Unit B2
St Jacobs ON N0B 2N0 | ***SCT***

Established:	01-AUG-96
Plant Size (ft²):	30000
Employment:	

--Details--

Description:	Software Publishers
SIC/NAICS Code:	511210
Description:	Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code:	334110

Unplottable Summary

Total: 5 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
GEN	Steed and Evans Limited	King St North	St Jacobs ON	N0B2N0
GEN	Steed and Evans Limited	King St North	St Jacobs ON	N0B2N0
SCT	RED CORAL INC.	133 KING ST N	ST. JACOBS ON	N0B 2N0
SCT	D & D Mould Pattern & Die Machine	133 King St N	St. Jacobs ON	
SPL	EXPERT PAINTING	ARTHUR ST MOTOR VEHICLE (OPERATING FLUID)	WOOLWICH TWP. ON	

Unplottable Report

Site: ***Steed and Evans Limited***
King St North St Jacobs ON N0B2N0

Database: ***GEN***

Generator No:	ON2854874	***PO Box No:***	
Status:		***Country:***	Canada
Approval Years:	2016	***Choice of Contact:***	CO_OFFICIAL
Contam. Facility:	No	***Co Admin:***	
MHSW Facility:	No	***Phone No Admin:***	
SIC Code:	237110		
SIC Description:	WATER AND SEWER LINE AND RELATED STRUCTURES CONSTRUCTION		

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Site: ***Steed and Evans Limited***
King St North St Jacobs ON N0B2N0

Database: ***GEN***

Generator No:	ON2854874	***PO Box No:***	
Status:	Registered	***Country:***	Canada
Approval Years:	As of Dec 2017	***Choice of Contact:***	
Contam. Facility:		***Co Admin:***	
MHSW Facility:		***Phone No Admin:***	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

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Site: ***RED CORAL INC.***
133 KING ST N ST. JACOBS ON N0B 2N0

Database: ***SCT***

Established: 1987
Plant Size (ft²): 0
Employment: 19

--Details--
Description: Cut and Sew Clothing Contracting
SIC/NAICS Code: 315210

Description: Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing
SIC/NAICS Code: 315232

Description: Other Women's and Girls' Cut and Sew Clothing Manufacturing
SIC/NAICS Code: 315239

Description: Clothing and Clothing Accessories Wholesaler-Distributors
SIC/NAICS Code: 414110

Site: ***D & D Mould Pattern & Die Machine***
133 King St N St. Jacobs ON

Database: ***SCT***

Established:	1985
Plant Size (ft²):	3200
Employment:	6

Site: ***EXPERT PAINTING***
ARTHUR ST MOTOR VEHICLE (OPERATING FLUID) WOOLWICH TWP. ON

Database: ***SPL***

Ref No:	38972	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	8/9/1990	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	OTHER CONTAINER LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	25604
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	F.D., REGION
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	8/9/1990	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	OTHER	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	EXPERT PAINTING - 25 LTR PAINT TO ROAD, CLEANED UPBY REGION.		
Contaminant Qty:			

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Dec 31, 2020

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Dec 31, 2020

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Aug 2021

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-Jul 2021

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994- Aug 31, 2021

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: May 31, 2021

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011- Aug 31, 2021

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994- Aug 31, 2021

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Aug 31, 2021

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-Jun 30, 2021

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2020

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Aug 2021

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

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-Apr 30, 2021

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 2019

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES): Federal NATE

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

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

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

Government Publication Date: Dec 31, 2019

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

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

Government Publication Date: 1988-Feb 28, 2021

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-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Aug 31, 2021

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- Aug 31, 2021

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

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

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

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

Government Publication Date: 1994- Aug 31, 2021

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: 1986-1990, 1992-2018

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-Aug 2021

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Dec 31, 2020

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-Aug 2020

Wastewater Discharger Registration Database: Provincial SRDS

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

Government Publication Date: 1990-Dec 31, 2018

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 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011- Aug 31, 2021

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

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Apr 30, 2021

Definitions

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

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

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

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX G
QUALIFICATIONS OF ASSESSOR

Michael J. Lefebvre, P.Geo.

Environmental Site Assessor

Mr. Lefebvre has over 20 years of experience in environmental assessment and project management providing site investigation, remediation services, for the industrial, commercial and municipal sectors. Mr. Lefebvre extensive experience in environmental management, environmental auditing, remedial design, project implementation, environmental clean up, and site decommissioning.

Mr. Lefebvre has specialized in the development and implementation of environmental work plans and programs for a broad range of clients in the property management, insurance, automotive, chemical, manufacturing and transportation sectors.

Education

- Bachelor of Environmental Studies, University of Waterloo, 1986

Professional Affiliations

- Association of Professional Geoscientists of Ontario.
- Mr. Lefebvre is currently registered as a "Qualified Person (ESA)" as described in the amended Ontario Regulation 153/04.

Project Experience

Mr. Lefebvre has conducted over 1000 Phase I and Phase II Environmental Site Assessments (ESA's) for various commercial and industrial properties including service stations, shopping plazas, apartment buildings and industrial manufacturing facilities.

Phase I and Phase II ESA's have also been prepared to support the submission of a Record of Site Condition (RSC) to the Ministry of the Environment.

Mr. Lefebvre has conducted numerous major environmental decommissioning projects. His areas of expertise include regulatory liaison, industrial plant decommissioning, spill cleanup, reclamation, and site rehabilitation.

Mr. Lefebvre conducted *compliance audits* in various industrial settings over the past four years and has assisted in the preparation of companies for ISO 14001 registration. Mr. Lefebvre has conducted compliance audits for the automotive, packaging sector and conducted numerous pre-acquisition environmental compliance audits throughout Ontario, for the insurance, property acquistion and banking industry.

Mr. Lefebvre has supervised over 100 underground storage tank removal projects and provided direction for further remedial activities when required.

Andres Leal. B.Eng. Environmental

Environmental Site Assessor

Mr. Leal has approximately 1 year experience in environmental assessment and inspection, providing and overseeing site investigations for the industrial, commercial, residential and municipal sectors.

Mr. Leal has specialized in the environmental inspection and assessment of residential and commercial properties for a broad range of clients in the property management and insurance sectors.

Education

- Bachelor of Engineering – B.Eng, Environmental Engineering
  University of Guelph, 2020

Project Experience

Mr. Leal has conducted over 25 Phase I Environmental Site Assessments for various residential, commercial and industrial properties including but not limited to industrial condos, public institutions, single and multi-tenant residential buildings, and vacant lands.

Mr. Leal has also specialized in the environmental excess soil management sector in accordance with Ontario Regulation 406/19 and has conducted various excess soil projects that involve client liaison, soil sampling in the field, submission of soil samples for laboratory analysis, interpretation of results and report.

Mr. Leal has conducted field work for a variety of other environmental services including hydrogeological investigations and geotechnical investigations.

Appendix E

Regulatory Agency Correspondence

Ontario

Ministry of the Environment, Conservation and Parks

Corporate Management Division

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

Division de la gestion ministérielle

November 13, 2024

Natalie Veras
GHD Limited

Dear Natalie Veras
RE: Request #: EPI-2024-2000005253
Requestor provided Site Name:
Requestor provided Client Reference: 12637434
Site address: 52 Hawkesville Road, St. Jacobs || 110, 118 Northside Drive, St. Jacobs || Lot Part of Lot 37 German Company Tract, Concession 0, Woolwich Municipality, St. Jacobs

This letter confirms that, after conducting a thorough search of its source system applications, the ministry was not able to find any records related to your environmental property-related information request.

If you have any questions regarding the matter, please contact the ministry at eproperty@ontario.ca.

Sincerely,

Environmental Property Information (EPI) Program

Disclaimer

This search result is provided for informational purposes only and is not intended to provide specific advice or recommendations. The Ministry of the Environment, Conservation and Parks (MECP) cannot and does not guarantee that the information provided is current, accurate, complete, or free of errors. Any reliance upon this information is solely at the risk of the user.

Marcel Heather

From: Public Information Services <publicinformationservices@tssa.org>
Sent: Friday, November 8, 2024 12:11 PM
To: Marcel Heather
Subject: RE: TSSA Database Search Inquiries

Follow Up Flag: Follow up
Flag Status: Flagged

You don't often get email from publicinformationservices@tssa.org. Learn why this is important

Hello ,

NO RECORDS FOUND IN CURRENT DATABASE:

- We confirm that there are NO **fuels records** in our database at the subject address(es).

This is not a confirmation that there are no records in the archives. For a further search in our archives, please go to the **TSSA Client Portal** to complete an Application for Release of Public Information.

Please refer to How to Submit a Public Information Request (tssa.org) for instructions.

The associated fee must be paid via credit card (Visa or MasterCard).

Once all steps have been successfully completed you will receive your payment receipt via email.

TSSA does not make any representations or warranties with respect to the accuracy or completeness of any records released. The requestor assumes all risk in using or relying on the information provided.

If you have any questions or concerns, please do not hesitate to contact our Public Information Release team at publicinformationservices@tssa.org.

Kind regards,

Melanie Fowler | Public Information Releases Agent
Legal
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1 416-734-3593 | Fax: +1 416-231-4903 | E-Mail: mfowler@tssa.org
www.tssa.org

Winner of 2023 5-Star Safety Cultures Award

<publicinformationservices@tssa.org>

From: Marcel Heather <Marcel.Heather@ghd.com>
Sent: Friday, November 8, 2024 11:58 AM
To: Public Information Services

Cc: Laura Bender <Laura.Bender@ghd.com>
Subject: TSSA Database Search Inquiries

[CAUTION]: This email originated outside the organisation.
Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Hello,

I am inquiring to find out if there are any records within the TSSA database regarding any underground storage tanks, storage of petroleum or associated products, outstanding instruction, incident reports, fuel oil spills, or contamination records associated with the following properties:

- 52 Hawkesville Road, St. Jacobs, ON N0B 2N0
- 110 Northside Drive, St Jacobs, ON N0B 2N0
- 118 Northside Drive, St. Jacobs, ON N0B 2N0
- Legal Address: Part of Lot 37 German Company Tract

The final address on this list has no municipal address and is just known by it's legal address, I have attached an image of this property for reference. Let me know if you have any questions.

Thank you,

Marcel Heather (he/him)
Graduate Scientist

GHD
Proudly employee-owned | ghd.com
455 Philip Street, Waterloo, Ontario, N2L 3X2, Canada
D 519-340-3739 | **M** 519-501-5600 | **E** Marcel.Heather@ghd.com

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Connect

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Appendix F

Environmental Databases Search Report

DATABASE REPORT

Project Property:	*52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract* *52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract* *St. Jacobs ON*
Project No:	*12637434-DEL.3*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*24110800718*
Requested by:	*GHD Limited*
Date Completed:	*November 12, 2024*

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

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

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Executive Summary

Property Information:

Project Property:	*52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract* *52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract St. Jacobs ON*
Project No:	*12637434-DEL.3*

Order Information:

Order No:	*24110800718*
Date Requested:	*November 8, 2024*
Requested by:	*GHD Limited*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

ERIS Xplorer	*ERIS Xplorer*

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
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	4	4
CA	Certificates of Approval	Y	0	1	1
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	1	1
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	1	6	7
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	0	0
FSTH	Fuel Storage Tank - Historic	Y	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	6	6
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPR2	National Pollutant Release Inventory 1993-2020	Y	0	0	0
NPRI	National Pollutant Release Inventory - Historic	Y	0	0	0
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	2	2
PFAS	Ontario PFAS Spills	Y	0	0	0
PFCH	NPRI Reporters - PFAS Substances	Y	0	0	0
PFHA	Potential PFAS Handlers from NPRI	Y	0	0	0
PINC	Pipeline Incidents	Y	0	0	0
PPHA	Potential PFAS Handlers from EASR	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	10	10
SPL	Ontario Spills	Y	0	7	7
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
WDSH	***Waste Disposal Sites - MOE 1991 Historical Approval Inventory***	*Y*	*0*	*0*	*0*
WWIS	***Water Well Information System***	*Y*	*7*	*21*	*28*
		Total:	*8*	*58*	*66*

Executive Summary: Site Report Summary - Project Property

DB	Map Key	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
EHS	8		110 & 118 Northside Drive St. Jacobs ON N0B 2N0	E/0.0	1.00	21
WWIS	1		118 Northside Drive lot 37 St. Jacobs ON ***Well ID:*** 7407936	E/0.0	0.00	34
WWIS	2		118 Northside Drive lot 37 St. Jacobs ON ***Well ID:*** 7407935	ESE/0.0	0.76	38
WWIS	3		118 Northside Drive lot 37 St. Jacobs ON ***Well ID:*** 7407937	E/0.0	-0.75	42
WWIS	4		118 Northside Drive lot 36 St. Jacobs ON ***Well ID:*** 7407954	E/0.0	0.00	45
WWIS	5		118 Northside Drive lot 36 St. Jacobs ON ***Well ID:*** 7407934	ESE/0.0	1.00	49
WWIS	6		118 Northside Drive lot 36 St. Jacobs ON ***Well ID:*** 7407938	ESE/0.0	1.00	53
WWIS	7		118 Northside Drive lot 36 St. Jacobs ON ***Well ID:*** 7407939	E/0.0	1.00	57

Executive Summary: Site Report Summary - Surrounding Properties

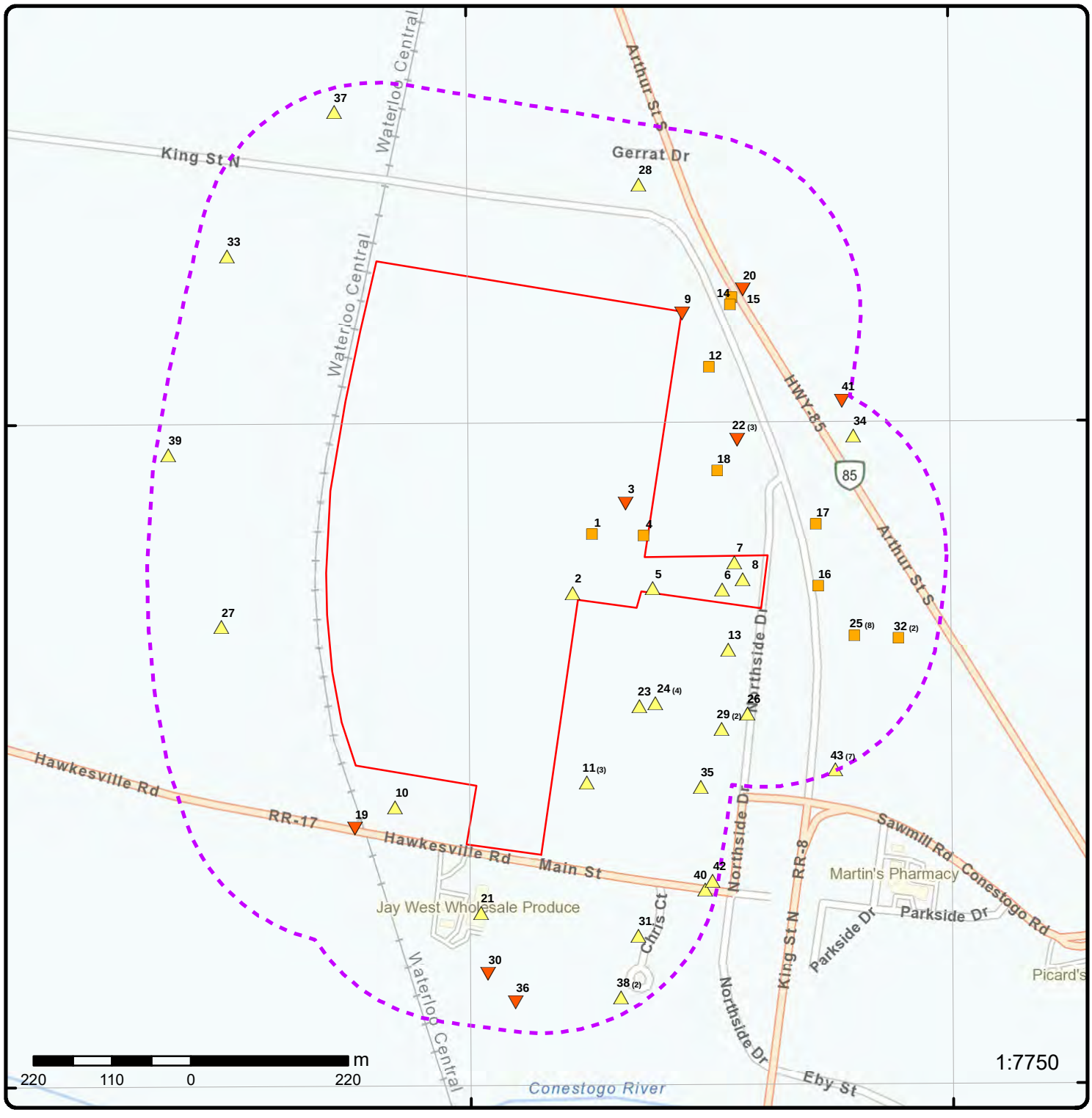
DB	Map Key	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
BORE	14		ON	NE/68.2	0.00	16
BORE	15		ON	NE/72.5	0.00	17
BORE	20		ON	NE/90.9	-0.34	18
BORE	35		ON	SE/206.9	2.88	19
CA	26	REGIONAL MUNICIPALITY OF WATERLOO	76 NORTHSIDE STREET (ST.JACOBS WATERLOO CITY ON	ESE/148.1	1.69	20
ECA	11	The Corporation of the Township of Woolwich	20 & 48 Hawkesville Rd Woolwich ON N3B 2Z6	SSE/48.6	3.92	20
EHS	16		1572 King St N Woolwich ON N0B2N0	E/75.4	0.00	21
EHS	17		1620 King Street North St. Jacobs ON	E/80.5	0.00	21
EHS	21		51 Hawkesville Road St. Jacobs ON N0B 2N0	S/91.6	0.39	21
EHS	30		51 Hawkesville Road St. Jacobs ON N0B 2N0	S/175.5	-2.08	21
EHS	32		1580 King St N Woolwich ON N0B2N0	ESE/196.7	0.00	22
EHS	43		1550 King St. N St. Jacobs ON N0B 2N0	ESE/247.8	1.08	22

DB	Map Key	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
GEN	22	Hortsy's Welding Ltd.	1637 King Street North St.Jacobs ON N0B 2N0	ENE/103.5	-1.34	22
GEN	22	Hortsy's Welding Ltd.	1637 King Street North St.Jacobs ON N0B 2N0	ENE/103.5	-1.34	23
GEN	22	Hortsy's Welding Ltd.	1637 King Street North St.Jacobs ON N0B 2N0	ENE/103.5	-1.34	23
GEN	25	The Crack Specialists	1600 King Street North, Unit #18, #19, #20 St. Jacobs ON N0B 2N0	ESE/135.7	0.00	23
GEN	25	The Crack Specialists	1600 King Street North, Unit #18, #19, #20 St. Jacobs ON N0B 2N0	ESE/135.7	0.00	24
GEN	25	The Crack Specialists	1600 King Street North, Unit #18, #19, #20 St. Jacobs ON N0B 2N0	ESE/135.7	0.00	24
PES	11	CALVARY UNITED CHURCH	PO BOX 189, 48 HAWKEWVILLE ST. JACOBS ON N0B2N0	SSE/48.6	3.92	24
PES	11	CALVARY UNITED CHURCH	PO BOX 189, 48 HAWKEWVILLE ST. JACOBS ON N0B2N0	SSE/48.6	3.92	25
SCT	25	Red Coral Inc.	1600 King St N St. Jacobs ON	ESE/135.7	0.00	25
SCT	25	D & D Mould Pattern & Die Machine	1600 King St N Unit 22 St. Jacobs ON	ESE/135.7	0.00	25
SCT	25	CRV Computer	1600 King St N Unit 11 St Jacobs ON N0B 2N0	ESE/135.7	0.00	26
SCT	25	D & D Mould & Die (2003)	1600 King St N Unit 22 St Jacobs ON N0B 2N0	ESE/135.7	0.00	26
SCT	25	Manufacturers Automation Inc.	1600 King St N St Jacobs ON N0B 2N0	ESE/135.7	0.00	27

DB	Map Key	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
SCT	32	Mechdyne Corporation Canada	1580 King St N Unit B2 St Jacobs ON N0B 2N0	ESE/196.7	0.00	27
SCT	38	Manutech Inc.	7 Chris Crt St. Jacobs ON	SSE/228.1	1.78	27
SCT	38	Manutech Inc.	7 Chris Crt St Jacobs ON N0B 2N0	SSE/228.1	1.78	27
SCT	43	Rainbow Tool & Die Manufacturing Inc.	1550 King St N St. Jacobs ON	ESE/247.8	1.08	27
SCT	43	Rainbow Tool & Die Mfg. Inc.	1550 King St N St Jacobs ON N0B 2N0	ESE/247.8	1.08	28
SPL	24	The Regional Municipality of Waterloo	74 Northside Dr Woolwich ON	SE/127.8	3.08	28
SPL	24	The Regional Municipality of Waterloo	74 Northside Dr Woolwich ON	SE/127.8	3.08	29
SPL	24	The Regional Municipality of Waterloo	74 Northside Dr Woolwich ON	SE/127.8	3.08	30
SPL	24	The Regional Municipality of Waterloo	74 North Side Dr. Woolwich ON	SE/127.8	3.08	30
SPL	29	FRY HATCHERY	80 NORTHSIDE DRIVE ST. JACOBS 80 NORTHSIDE DRIVE ST. JACOBS WOOLWICH TWP. ON	ESE/174.3	2.20	31
SPL	29	Regional Municipality of Waterloo	80 Northside Dr, St. Jacobs Waterloo ON	ESE/174.3	2.20	32
SPL	41	The Corporation of the Township of Woolwich	1019 Arthur Street South Woolwich ON	ENE/239.2	-1.00	33
WWIS	9		3246 MOSER YOUNG RD lot 6 con 10 WELLESLEY ON	NE/0.9	-0.03	61

DB	Map Key	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7042372			
WWIS	10		lot 37 ON ***Well ID:*** 6503243	SSW/47.8	1.00	63
WWIS	12		lot 37 ON ***Well ID:*** 6503542	ENE/49.0	0.00	66
WWIS	13		lot 37 ON ***Well ID:*** 6502672	ESE/63.4	1.69	70
WWIS	18		lot 37 ON ***Well ID:*** 6502670	E/82.3	0.00	73
WWIS	19		Hawkesville Rd Waterloo ON ***Well ID:*** 7359804	SSW/87.7	-0.27	77
WWIS	23		lot 37 ON ***Well ID:*** 6503543	SE/106.4	3.08	79
WWIS	27		lot 37 ON ***Well ID:*** 6509413	WSW/148.2	5.00	83
WWIS	28		lot 45 ON ***Well ID:*** 6502701	NNE/165.4	8.05	87
WWIS	31		lot 37 ON ***Well ID:*** 6502668	SSE/176.6	5.00	91
WWIS	33		lot 37 ON ***Well ID:*** 6502669	NW/205.0	4.67	95
WWIS	34		lot 36 ON ***Well ID:*** 6503087	E/206.2	0.07	100
WWIS	36		51 Hawkesville Road lot 37 St. Jacobs ON ***Well ID:*** 7398389	S/209.0	-1.56	103
WWIS	37		1764 KING ST lot 46 Waterloo ON	NNW/217.1	1.87	106

DB	Map Key	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7393905			
WWIS	39		1801 KING ST. N. lot 37 ST. JACOBS ON ***Well ID:*** 7309333	W/231.8	5.78	115
WWIS	40		Hawksville Rd Waterloo ON ***Well ID:*** 7359803	SE/233.6	3.72	118
WWIS	42		lot 36 ON ***Well ID:*** 7328146	SE/242.3	3.05	119
WWIS	43		1550 King Street North lot 36 St. Jacobs ON ***Well ID:*** 7437680	ESE/247.8	1.08	120
WWIS	43		1550 King Street North lot 36 St. Jacobs ON ***Well ID:*** 7437678	ESE/247.8	1.08	122
WWIS	43		1550 King Street North lot 36 St. Jacobs ON ***Well ID:*** 7437679	ESE/247.8	1.08	125
WWIS	43		1550 King Street North lot 36 St. Jacobs ON ***Well ID:*** 7437677	ESE/247.8	1.08	127



Map: 0.25 Kilometer Radius

Order Number: 24110800718

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract, St. Jacobs, ON

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail
- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

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Aerial

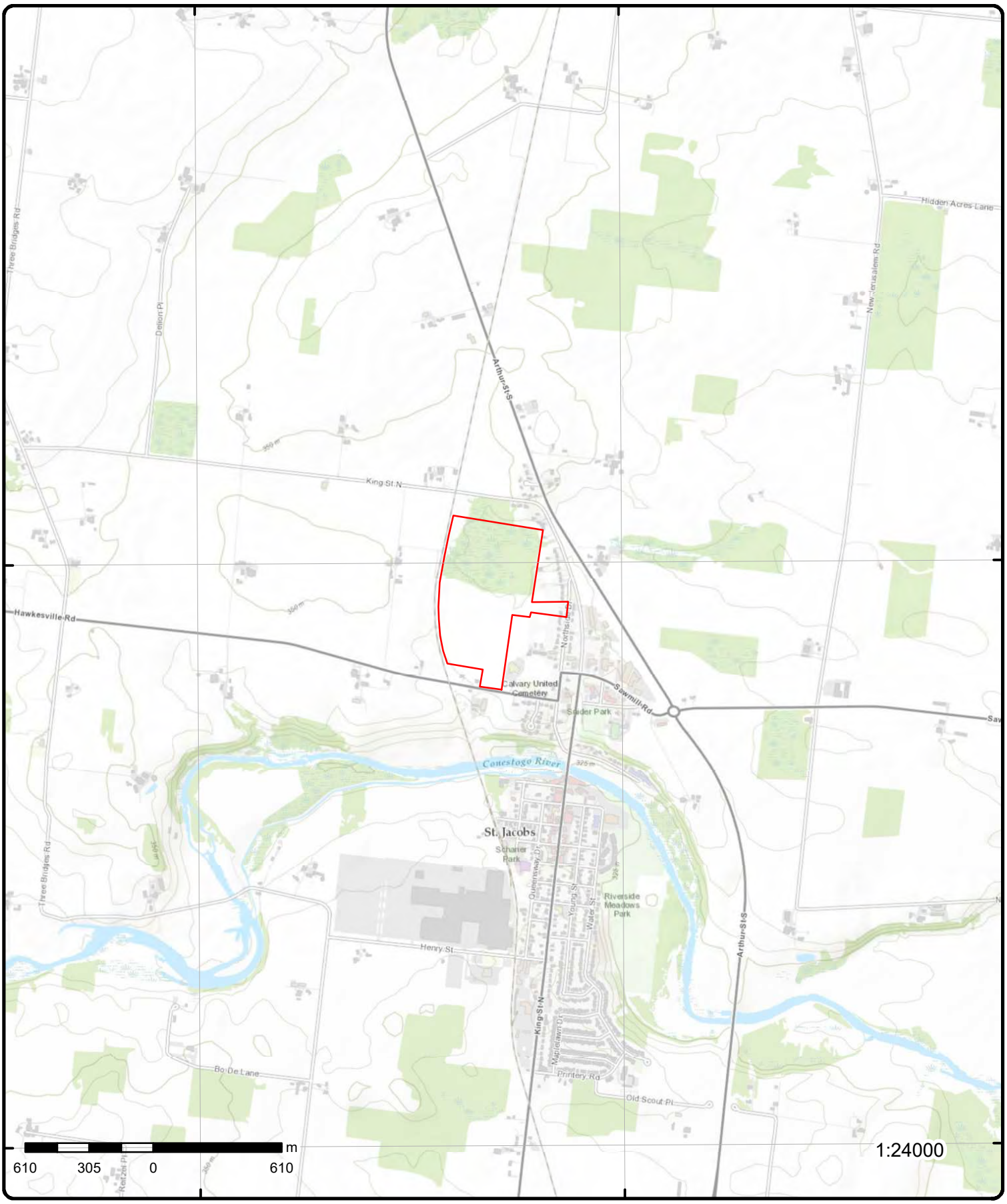
Year: 2022

Order Number: 24110800718

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part ERIS mpa

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Order Number: 24110800718

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part ...mpa

Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
BORE	14	1 of 1	NE/68.2	344.9 / 0.00	ON

Borehole ID:	851915	**Inclin FLG:**	No
OGF ID:	215574597	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	30-JAN-1976	**Municipality:**	
Static Water Level:	1.0	**Lot:**	
Primary Water Use:		**Township:**	WOOLWICH
Sec. Water Use:		**Latitude DD:**	43.551477
Total Depth m:	12.3	**Longitude DD:**	-80.553801
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	536042
Drill Method:	Hollow stem auger	**Northing:**	4822155
Orig Ground Elev m:	344	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	345		
Concession:			
Location D:	Highway 85N, .8 miles north of the bridge in St. Jacobs.		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	220428890	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	1.5	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Gravel	**Geologic Period:**	
Material 4:		**Depositional Gen:**	fill
Gsc Material Description:			
Stratum Description:	Fill material sand and gravel, very dense, brown.		

Geology Stratum ID:	220428893	**Mat Consistency:**	Hard
Top Depth:	7.5	**Material Moisture:**	
Bottom Depth:	12.3	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Clayey silt to silt with sand and gravel, hard, grey. (Glacial till) **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	220428891	**Mat Consistency:**	Compact
Top Depth:	1.5	**Material Moisture:**	
Bottom Depth:	6.9	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	

Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: Sandy silt, trace of clay, compact to dense, brown.

Geology Stratum ID: 220428892 **Mat Consistency:** Stiff
Top Depth: 6.9 **Material Moisture:**
Bottom Depth: 7.5 **Material Texture:**
Material Color: Grey **Non Geo Mat Type:**
Material 1: Silt **Geologic Formation:**
Material 2: Clay **Geologic Group:**
Material 3: **Geologic Period:**
Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: Clayey silt, v.stiff, grey.

BORE 15 **1 of 1** **NE/72.5** **344.9 / 0.00** **ON**

Borehole ID: 851914 **Inclin FLG:** No
OGF ID: 215574596 **SP Status:** Initial Entry
Status: Decommissioned **Surv Elev:** No
Type: Borehole **Piezometer:** No
Use: Geotechnical/Geological Investigation **Primary Name:**
Completion Date: 21-JAN-1976 **Municipality:**
Static Water Level: 1.0 **Lot:**
Primary Water Use: **Township:** WOOLWICH
Sec. Water Use: **Latitude DD:** 43.551576
Total Depth m: 12.5 **Longitude DD:** -80.553776
Depth Ref: Ground Surface **UTM Zone:** 17
Depth Elev: **Easting:** 536044
Drill Method: Hollow stem auger **Northing:** 4822166
Orig Ground Elev m: 342 **Location Accuracy:**
Elev Reliabil Note: **Accuracy:** Within 10 metres
DEM Ground Elev m: 345
Concession:
Location D: Highway 85N, .8 miles north of the bridge in St. Jacobs.
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID: 220428887 **Mat Consistency:** Compact
Top Depth: 0 **Material Moisture:**
Bottom Depth: 4.7 **Material Texture:**
Material Color: Brown **Non Geo Mat Type:**
Material 1: Silt **Geologic Formation:**
Material 2: Clay **Geologic Group:**
Material 3: Sand **Geologic Period:**
Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: Sandy silt, trace of clay, compact, brown.

Geology Stratum ID: 220428888 **Mat Consistency:** Hard
Top Depth: 4.7 **Material Moisture:**
Bottom Depth: 5.8 **Material Texture:**
Material Color: Grey **Non Geo Mat Type:**
Material 1: Silt **Geologic Formation:**
Material 2: Clay **Geologic Group:**
Material 3: **Geologic Period:**
Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: Clayey silt, grey, hard.

Geology Stratum ID: 220428889 **Mat Consistency:** Hard
Top Depth: 5.8 **Material Moisture:**

Bottom Depth:	12.5	**Material Texture:**	
Material Color:	Grey	**Non Geo Mat Type:**	
Material 1:	Till	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:	Gravel	**Depositional Gen:**	glacial
Gsc Material Description:			
Stratum Description:	Clayey silt to silt with sand and gravel, hard, grey to greyish brown. (Glacial till) **Note: Many records provided by the department have a truncated [Stratum Description] field.		

BORE | 20 | 1 of 1 | NE/90.9 | 344.5 / -0.34 | ON

Borehole ID:	851913	**Inclin FLG:**	No
OGF ID:	215574595	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	19-JAN-1976	**Municipality:**	
Static Water Level:	1.0	**Lot:**	
Primary Water Use:		**Township:**	WOOLWICH
Sec. Water Use:		**Latitude DD:**	43.551665
Total Depth m:	9.5	**Longitude DD:**	-80.553577
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	536060
Drill Method:	Hollow stem auger	**Northing:**	4822176
Orig Ground Elev m:	343	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	345		
Concession:			
Location D:	Highway 85N, .8 miles north of the bridge in St. Jacobs.		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	220428885	**Mat Consistency:**	
Top Depth:	5.5	**Material Moisture:**	
Bottom Depth:	5.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Gravel	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Clayey silt, trace of gravel.		

Geology Stratum ID:	220428883	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	2.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Sandy silt, trace of clay, compact to dense.		

Geology Stratum ID:	220428884	**Mat Consistency:**	Dense
Top Depth:	2.9	**Material Moisture:**	
Bottom Depth:	5.5	**Material Texture:**	Fine
Material Color:		**Non Geo Mat Type:**	
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silt	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	

Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: Sand, fine to medium with silt, trace of clay, dense to very dense.

Geology Stratum ID: 220428886 **Mat Consistency:** Hard
Top Depth: 5.9 **Material Moisture:**
Bottom Depth: 9.5 **Material Texture:**
Material Color: Grey **Non Geo Mat Type:**
Material 1: Till **Geologic Formation:**
Material 2: Silt **Geologic Group:**
Material 3: Sand **Geologic Period:**
Material 4: Gravel **Depositional Gen:** glacial
Gsc Material Description:
Stratum Description: Clayey silt to silt with sand and gravel, grey, hard. (Glacial till) **Note: Many records provided by the department have a truncated [Stratum Description] field.

BORE 35 **1 of 1** **SE/206.9** **347.7 / 2.88** **ON**

Borehole ID: 682308 **Inclin FLG:** No
OGF ID: 215559304 **SP Status:** Initial Entry
Status: **Surv Elev:** No
Type: Borehole **Piezometer:** No
Use: Geotechnical/Geological Investigation **Primary Name:**
Completion Date: SEP-1970 **Municipality:**
Static Water Level: 1.2 **Lot:**
Primary Water Use: **Township:**
Sec. Water Use: **Latitude DD:** 43.54541
Total Depth m: 3 **Longitude DD:** -80.554353
Depth Ref: Ground Surface **UTM Zone:** 17
Depth Elev: **Easting:** 536001
Drill Method: Boring **Northing:** 4821481
Orig Ground Elev m: 347 **Location Accuracy:**
Elev Reliabil Note: **Accuracy:** Not Applicable
DEM Ground Elev m: 348
Concession:
Location D:
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID: 218557139 **Mat Consistency:**
Top Depth: 0 **Material Moisture:**
Bottom Depth: .6 **Material Texture:**
Material Color: **Non Geo Mat Type:**
Material 1: Unknown **Geologic Formation:**
Material 2: **Geologic Group:**
Material 3: **Geologic Period:**
Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: (No description) **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID: 218557141 **Mat Consistency:**
Top Depth: 2.3 **Material Moisture:**
Bottom Depth: 3 **Material Texture:**
Material Color: **Non Geo Mat Type:**
Material 1: Silt **Geologic Formation:**
Material 2: **Geologic Group:**
Material 3: **Geologic Period:**
Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: (No description) **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID: 218557140 **Mat Consistency:** Stiff

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

Top Depth: .6
Bottom Depth: 2.3
Material Color: Grey-Brown
Material 1: Clay
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:
Stratum Description: STIFF, BROWN TO GREY, SAND SEAMS, TILL **Note: Many records provided by the department have a truncated [Stratum Description] field.

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1900 - 1977
Confidence:
Observatio: 1970/9
Source Name: Waterloo Area Geology Automated Information System (WAGAIS)
Source Details: 11745
Confiden 1:
Source Appl: Spatial/Tabular
Source Iden: 4
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 4
Source Type: Data Survey
Source Date: 1900 - 1977
Scale or Resolution: Varies
Source Name: Waterloo Area Geology Automated Information System (WAGAIS)
Source Originators: Geological Survey of Canada
Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Traverse Mercator

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
CA	26	1 of 1	ESE/148.1	346.5 / 1.69	REGIONAL MUNICIPALITY OF WATERLOO 76 NORTHSIDE STREET (ST. JACOBS WATERLOO CITY ON

Certificate #: 8-2171-90-
Application Year: 90
Issue Date: 12/6/1990
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: DIESEL GENERATOR
Contaminants: Nitrogen Oxides, Sulphur Dioxide
Emission Control: No Controls

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
ECA	11	3 of 3	SSE/48.6	348.8 / 3.92	The Corporation of the Township of Woolwich 20 & 48 Hawkesville Rd Woolwich ON N3B 2Z6

Approval No: 4718-BSSS9G
Approval Date: 2020-08-25
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

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

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Corporation of the Township of Woolwich
Address: 20 & 48 Hawkesville Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4712-BSCJSC-14.pdf
PDF Site Location:

EHS | **8** | **1 of 1** | **E/0.0** | **345.9 / 1.00** | **110 & 118 Northside Drive St. Jacobs ON N0B 2N0**

Order No: 21110500238
Status: C
Report Type: Standard Select Report
Report Date: 10-NOV-21
Date Received: 05-NOV-21
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -80.553608
Y: 43.5480254

EHS | **16** | **1 of 1** | **E/75.4** | **344.9 / 0.00** | **1572 King St N Woolwich ON N0B2N0**

Order No: 20161004160
Status: C
Report Type: Standard Express Report
Report Date: 12-OCT-16
Date Received: 04-OCT-16
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Aerial Photos
Nearest Intersection:
Municipality: Region of Waterloo
Client Prov/State: ON
Search Radius (km): .25
X: -80.552301
Y: 43.547932

EHS | **17** | **1 of 1** | **E/80.5** | **344.9 / 0.00** | **1620 King Street North St. Jacobs ON**

Order No: 20130917029
Status: C
Report Type: Standard Report
Report Date: 26-SEP-13
Date Received: 17-SEP-13
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -80.552333
Y: 43.548712

EHS | **21** | **1 of 1** | **S/91.6** | **345.2 / 0.39** | **51 Hawkesville Road St. Jacobs ON N0B 2N0**

Order No: 23082900191
Status: C
Report Type: Standard Report
Report Date: 01-SEP-23
Date Received: 29-AUG-23
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Aerial Photos
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -80.5581676
Y: 43.543841

EHS | **30** | **1 of 1** | **S/175.5** | **342.8 / -2.08** | **51 Hawkesville Road**

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
					St. Jacobs ON N0B 2N0

Order No:	23111600161	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	23-NOV-23	**Search Radius (km):**	.25
Date Received:	16-NOV-23	**X:**	-80.5580451
Previous Site Name:		**Y:**	43.54306527
Lot/Building Size:			
Additional Info Ordered:			

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
EHS	32	2 of 2	ESE/196.7	344.9 / 0.00	1580 King St N Woolwich ON N0B2N0

Order No:	20150305001	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	10-MAR-15	**Search Radius (km):**	.25
Date Received:	05-MAR-15	**X:**	-80.551153
Previous Site Name:		**Y:**	43.547288
Lot/Building Size:			
Additional Info Ordered:			

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
EHS	43	7 of 7	ESE/247.8	345.9 / 1.08	1550 King St. N St. Jacobs ON N0B 2N0

Order No:	22091901001	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	22-SEP-22	**Search Radius (km):**	.25
Date Received:	19-SEP-22	**X:**	-80.5520266
Previous Site Name:		**Y:**	43.5456211
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos		

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
GEN	22	1 of 3	ENE/103.5	343.5 / -1.34	Hortsy's Welding Ltd. 1637 King Street North St.Jacobs ON N0B 2N0

Generator No:	ON4828939
SIC Code:	811199
SIC Description:	All Other Automotive Repair and Maintenance
Approval Years:	07,08
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
GEN	22	2 of 3	ENE/103.5	343.5 / -1.34	Hortsy's Welding Ltd. 1637 King Street North St.Jacobs ON N0B 2N0

Generator No: ON4828939
SIC Code: 811199
SIC Description: All Other Automotive Repair and Maintenance
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
GEN	22	3 of 3	ENE/103.5	343.5 / -1.34	Hortsy's Welding Ltd. 1637 King Street North St.Jacobs ON N0B 2N0

Generator No: ON4828939
SIC Code: 811199
SIC Description: All Other Automotive Repair and Maintenance
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
GEN	25	6 of 8	ESE/135.7	344.9 / 0.00	The Crack Specialists 1600 King Street North, Unit #18, #19, #20 St. Jacobs ON N0B 2N0

Generator No: ON8998491
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered

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

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

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GEN | **25** | ***7 of 8*** | ***ESE/135.7*** | ***344.9 / 0.00*** | ***The Crack Specialists***
1600 King Street North, Unit #18, #19, #20
St. Jacobs ON N0B 2N0

Generator No: ON8998491
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

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GEN | **25** | ***8 of 8*** | ***ESE/135.7*** | ***344.9 / 0.00*** | ***The Crack Specialists***
1600 King Street North, Unit #18, #19, #20
St. Jacobs ON N0B 2N0

Generator No: ON8998491
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Name: OTHER SPECIFIED INORGANICS

PES | **11** | ***1 of 3*** | ***SSE/48.6*** | ***348.8 / 3.92*** | ***CALVARY UNITED CHURCH***
PO BOX 189, 48 HAWKEWVILLE
ST. JACOBS ON N0B2N0

Detail Licence No: ***Operator Box:***

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

Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	Vendor
Report Source:		**Oper Area Code:**	
Licence Type:		**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
PES	11	2 of 3	SSE/48.6	348.8 / 3.92	**CALVARY UNITED CHURCH** **PO BOX 189, 48 HAWKEWVILLE** **ST. JACOBS ON N0B2N0**

Detail Licence No:	23-01-10857-0	**Operator Box:**	
Licence No:	10857	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	519
Licence Type:	Limited Vendor	**Oper Phone No:**	6642311
Licence Type Code:	23	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:	0	**Oper Concession:**	
Latitude:		**Operator Region:**	2
Longitude:		**Operator District:**	2
Lot:		**Operator County:**	65
Concession:		**Op Municipality:**	
Region:	2	**Post Office Box:**	
District:	2	**MOE District:**	
County:	65	**SWP Area Name:**	
Trade Name:			
PDF URL:			

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SCT	25	1 of 8	ESE/135.7	344.9 / 0.00	**Red Coral Inc.** **1600 King St N** **St. Jacobs ON**

Established:	1987
Plant Size (ft²):	
Employment:	19

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SCT	25	2 of 8	ESE/135.7	344.9 / 0.00	**D & D Mould Pattern & Die Machine** **1600 King St N Unit 22** **St. Jacobs ON**

Established:	1985
Plant Size (ft²):	3200
Employment:	6

--Details--

Description:	All Other Plastic Product Manufacturing

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

SIC/NAICS Code: 326198

Description: Machine Shops
SIC/NAICS Code: 332710

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Industrial Mould Manufacturing
SIC/NAICS Code: 333511

Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Description: All Other Miscellaneous Manufacturing
SIC/NAICS Code: 339990

SCT | 25 | ***3 of 8*** | ***ESE/135.7*** | ***344.9 / 0.00*** | ***CRV Computer***
1600 King St N Unit 11
St Jacobs ON N0B 2N0

Established: 01-JAN-90
Plant Size (ft²): 1250
Employment:

--Details--
Description: Computer and Software Stores
SIC/NAICS Code: 443120

Description: Computer Systems Design and Related Services
SIC/NAICS Code: 541510

SCT | 25 | ***4 of 8*** | ***ESE/135.7*** | ***344.9 / 0.00*** | ***D & D Mould & Die (2003)***
1600 King St N Unit 22
St Jacobs ON N0B 2N0

Established: 1985
Plant Size (ft²): 3200
Employment: 6

--Details--
Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Description: Machine Shops
SIC/NAICS Code: 332710

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Industrial Mould Manufacturing
SIC/NAICS Code: 333511

Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Description: All Other Miscellaneous Manufacturing
SIC/NAICS Code: 339990

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SCT	25	5 of 8	ESE/135.7	344.9 / 0.00	Manufacturers Automation Inc. 1600 King St N St Jacobs ON N0B 2N0

Established: 01-SEP-83
Plant Size (ft²):
Employment:

--Details--
Description: Wholesale Trade Agents and Brokers
SIC/NAICS Code: 419120

Description: Wholesale Trade Agents and Brokers
SIC/NAICS Code: 419120

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SCT	32	1 of 2	ESE/196.7	344.9 / 0.00	Mechdyne Corporation Canada 1580 King St N Unit B2 St Jacobs ON N0B 2N0

Established: 01-AUG-96
Plant Size (ft²): 30000
Employment:

--Details--
Description: Software Publishers
SIC/NAICS Code: 511210

Description: Computer and Peripheral Equipment Manufacturing
SIC/NAICS Code: 334110

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SCT	38	1 of 2	SSE/228.1	346.6 / 1.78	Manutech Inc. 7 Chris Crt St. Jacobs ON

Established: 1986
Plant Size (ft²):
Employment: 3

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SCT	38	2 of 2	SSE/228.1	346.6 / 1.78	Manutech Inc. 7 Chris Crt St Jacobs ON N0B 2N0

Established: 01-AUG-86
Plant Size (ft²): 1200
Employment:

--Details--
Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SCT	43	1 of 7	ESE/247.8	345.9 / 1.08	Rainbow Tool & Die Manufacturing Inc. 1550 King St N St. Jacobs ON

Established: 1962
Plant Size (ft²): 15000

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

Employment: 5

SCT | **43** | **2 of 7** | **ESE/247.8** | **345.9 / 1.08** | **Rainbow Tool & Die Mfg. Inc.**
1550 King St N
St Jacobs ON N0B 2N0

Established: 01-JUL-62
Plant Size (ft²): 15000
Employment:

--Details--
Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Description: Motor Home, Travel Trailer and Camper Manufacturing
SIC/NAICS Code: 336215

Description: Stamping
SIC/NAICS Code: 332118

SPL | **24** | **1 of 4** | **SE/127.8** | **347.9 / 3.08** | **The Regional Municipality of Waterloo**
74 Northside Dr
Woolwich ON

Ref No: 2814-895K5S
Year:
Incident Dt:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/9/2010
Dt Document Closed: 9/15/2010
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: St. Jacobs Booster Station
Site Address:
Site Region:
Site Municipality:
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing: NA
Easting: NA
Incident Cause: Overflow (Tanks Lagoons)
Incident Preceding Spill:
Environment Impact: Not Anticipated
Health Env Consequence:
Nature of Impact: Surface Water Pollution
Contaminant Qty: 0 other - see incident description
Contaminant Qty 1: 0
Contaminant Unit: other - see incident description
Client Type:
Source Type:
Contaminant Code: 99
Contaminant Name: CHLORINATED WATER
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

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

Receiving Medium:
Incident Reason: Equipment Failure - Malfunction of system components
Incident Summary: Region of Waterloo: Potable water to creek
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Other
SAC Action Class: Watercourse Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SPL	24	2 of 4	SE/127.8	347.9 / 3.08	The Regional Municipality of Waterloo 74 Northside Dr Woolwich ON

Ref No: 4282-8V2TTE
Year:
Incident Dt: 07-JUN-12
Dt MOE Arvl on Scn:
MOE Reported Dt: 07-JUN-12
Dt Document Closed: 25-JUL-12
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: St. Jacobs Booster Station
Site Address: 74 Northside Dr
Site Region:
Site Municipality: Woolwich
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing: NA
Easting: NA
Incident Cause: Other Discharges
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Soil Contamination
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code: 99
Contaminant Name: CHLORINATED WATER
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Incident Reason: Other - Reason not otherwise defined
Incident Summary: Chlorinated Water from Pump Stn to Land and/or creek
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Water Supply
SAC Action Class: Land Spills
Call Report Locatn Geodata:
Time Reported:
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

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

System Facility Address:
Client Name: The Regional Municipality of Waterloo

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SPL	24	3 of 4	SE/127.8	347.9 / 3.08	The Regional Municipality of Waterloo 74 Northside Dr Woolwich ON

Ref No: 0762-9FGRKT
Year:
Incident Dt: 2014/01/18
Dt MOE Arvl on Scn:
MOE Reported Dt: 2014/01/18
Dt Document Closed: 2014/02/06
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: St. Jacobs Booster Station
Site Address: 74 Northside Dr
Site Region:
Site Municipality: Woolwich
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing: NA
Easting: NA
Incident Cause: Overflow/Surcharge
Incident Preceding Spill:
Environment Impact: Not Anticipated
Health Env Consequence:
Nature of Impact: Other Impact(s)
Contaminant Qty: 48000 L
Contaminant Qty 1: 48000
Contaminant Unit: L
Client Type:
Source Type:
Contaminant Code: 99
Contaminant Name: WATER
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Incident Reason: Equipment Failure
Incident Summary: St. Jacobs DW Reservoir: dechlor drinking water to cb
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Water Supply
SAC Action Class: Land Spills
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name: The Regional Municipality of Waterloo

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SPL	24	4 of 4	SE/127.8	347.9 / 3.08	The Regional Municipality of Waterloo 74 North Side Dr. Woolwich ON

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

Ref No:	2460-AWFCZN	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	2018/03/01	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	2018/03/01	***Impact to Health:***	0 - No Impact
Dt Document Closed:		***Agency Involved:***	
Site No:	NA		
MOE Response:	No		
Site County/District:	Regional Municipality of Waterloo		
Site Geo Ref Meth:			
Site District Office:	Guelph		
Nearest Watercourse:			
Site Name:	74 North Side Dr.<UNOFFICIAL>		
Site Address:	74 North Side Dr.		
Site Region:	West Central		
Site Municipality:	Woolwich		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:	4821596.93		
Easting:	535944.66		
Incident Cause:			
Incident Preceding Spill:	Overflow/Surcharge		
Environment Impact:			
Health Env Consequence:			
Nature of Impact:			
Contaminant Qty:	0 other - see incident description		
Contaminant Qty 1:	0		
Contaminant Unit:	other - see incident description		
Client Type:	Municipal Government		
Source Type:	Water Supply		
Contaminant Code:	99		
Contaminant Name:	WATER		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:	n/a		
Receiving Medium:	Land		
Incident Reason:	Power Interruption/Loss		
Incident Summary:	Region of Waterloo: Unknown amount of potable water to catch basin		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:	Miscellaneous Industrial		
SAC Action Class:	Land Spills		
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:	The Regional Municipality of Waterloo		

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SPL	29	***1 of 2***	***ESE/174.3***	***347.1 / 2.20***	***FRY HATCHERY 80 NORTHSIDE DRIVE ST. JACOBS 80 NORTHSIDE DRIVE ST. JACOBS WOOLWICH TWP. ON***

Ref No:	51292	***Municipality No:***	25604
Year:		***Nature of Damage:***	
Incident Dt:	5/22/1991	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	5/28/1991	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	MCCR, R.M.
Site No:			
MOE Response:			
Site County/District:			

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

Site Geo Ref Meth:	
Site District Office:	
Nearest Watercourse:	
Site Name:	
Site Address:	
Site Region:	
Site Municipality:	WOOLWICH TWP.
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	ABOVE-GROUND TANK LEAK
Incident Preceding Spill:	
Environment Impact:	CONFIRMED
Health Env Consequence:	
Nature of Impact:	Soil contamination
Contaminant Qty:	
Contaminant Qty 1:	
Contaminant Unit:	
Client Type:	
Source Type:	
Contaminant Code:	
Contaminant Name:	
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	LAND
Incident Reason:	MATERIAL FAILURE
Incident Summary:	FRY HATCHERY: 1 000 L GASTO GROUND FROM LEAKY STORAGE TANK
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	
SAC Action Class:	
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	

SPL	**29**	***2 of 2***	***ESE/174.3***	***347.1 / 2.20***	***Regional Municipality of Waterloo 80 Northside Dr, St. Jacobs Waterloo ON***

Ref No:	4437-BURKVL	***Municipality No:***	
Year:		***Nature of Damage:***	
Incident Dt:	10/26/2020	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	10/26/2020	***Impact to Health:***	2 - Minor Environment
Dt Document Closed:		***Agency Involved:***	
Site No:	NA		
MOE Response:	No		
Site County/District:	Regional Municipality of Waterloo		
Site Geo Ref Meth:			
Site District Office:	Guelph		
Nearest Watercourse:			
Site Name:	spill at Frey Hatchery<UNOFFICIAL>		
Site Address:	80 Northside Dr, St. Jacobs		
Site Region:	West Central		
Site Municipality:	Waterloo		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			

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

Northing:	4821663
Easting:	536075
Incident Cause:	
Incident Preceding Spill:	Operator/Human error
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0 other - see incident description
Contaminant Qty 1:	0
Contaminant Unit:	other - see incident description
Client Type:	Municipal Government
Source Type:	Non-Point Source (i.e. run-off)
Contaminant Code:	45
Contaminant Name:	MANURE
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	n/a
Receiving Medium:	Source Water Zone
Incident Reason:	Intentional Discharge
Incident Summary:	Frey Hatchery: barn wash to private storm drain
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Miscellaneous Communal
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	Regional Municipality of Waterloo

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
SPL	41	1 of 1	ENE/239.2	343.9 / -1.00	The Corporation of the Township of Woolwich 1019 Arthur Street South Woolwich ON

Ref No:	6855-74BLF5	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:		**Discharger Report:**	
Dt MOE Arvl on Scn:	6/19/2007	**Material Group:**	Other
MOE Reported Dt:	6/19/2007	**Impact to Health:**	
Dt Document Closed:	8/4/2007	**Agency Involved:**	

Site No:	
MOE Response:	Planned Field Response
Site County/District:	
Site Geo Ref Meth:	
Site District Office:	
Nearest Watercourse:	
Site Name:	Broken Water Main<UNOFFICIAL>
Site Address:	
Site Region:	
Site Municipality:	Woolwich
Site Lot:	
Site Conc:	
Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	Discharge Or Bypass To A Watercourse
Incident Preceding Spill:	
Environment Impact:	Confirmed
Health Env Consequence:	
Nature of Impact:	Surface Water Pollution
Contaminant Qty:	Unknown Other - see incident Description
Contaminant Qty 1:	Unknown
Contaminant Unit:	Other - see incident Description

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

Client Type:
Source Type:
Contaminant Code: 99
Contaminant Name: DRINKING WATER (FULLY TREATED)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Water
Incident Reason:
Incident Summary: Woolwich: Watermain break, grey coloured water to creek
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Water Supply
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name: The Corporation of the Township of Woolwich

WWIS **1** ***1 of 1*** ***E/0.0*** ***344.9 / 0.00*** ***118 Northside Drive lot 37 St. Jacobs ON***

Well ID: 7407936
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: M3DBGIOQ
Tag: A332386
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: WOOLWICH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 01/12/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7190
Form Version: 9
Owner:
County: WATERLOO
Lot: 037
Concession:
Concession Name: GCT
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7407936.pdf

Additional Detail(s) (Map)

Well Completed Date: 12/13/2021
Year Completed: 2021
Depth (m): 4.572
Latitude: 43.5485956835547
Longitude: -80.5562116720398
X: -80.55621152381728
Y: 43.54859568311655
Path: 740\7407936.pdf

Bore Hole Information

Bore Hole ID: 1008916566
DP2BR:
Spatial Status:
Code OB:

Elevation:
Elevrc:
Zone: 17
East83: 535849.00

Code OB Desc:		**North83:**	4821834.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	12/13/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008916711
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	06
Material 2 Desc:	SILT
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008916710
Layer:	1
Color:	8
General Color:	BLACK
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008916712
Layer:	3
Color:	2
General Color:	GREY
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	06
Material 2 Desc:	SILT
Material 3:	
Material 3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	15.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916857
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916859
Layer: 3
Plug From: 4.0
Plug To: 15.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916825
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916858
Layer: 2
Plug From: 1.0
Plug To: 4.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008916642
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1008916641
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1008916614
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008916751
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -3.0
Depth To: 5.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1008916752
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: -3.0
Depth To: 1.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1008916771
Layer: 1
Slot: 010
Screen Top Depth: 5.0
Screen End Depth: 15.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.375

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1008916615
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Water Details

Water ID: 1008916680
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 7.5
Water Found Depth UOM: ft

Hole Diameter

Hole ID:	1008916789
Diameter:	8.5
Depth From:	0.0
Depth To:	15.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

WWIS	***2***	***1 of 1***	***ESE/0.0***	***345.6 / 0.76***

118 Northside Drive lot 37
St. Jacobs ON

Well ID:	7407935	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	01/12/2022
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	2PREDV33	***Contractor:***	7190
Tag:	A332385	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	WATERLOO
Elevatn Reliabilty:		***Lot:***	037
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	GCT
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7407935.pdf

Additional Detail(s) (Map)

Well Completed Date:	12/13/2021
Year Completed:	2021
Depth (m):	4.572
Latitude:	43.5478586561825
Longitude:	-80.5565513182477
X:	-80.55655116959923
Y:	43.547858655187135
Path:	740\7407935.pdf

Bore Hole Information

Bore Hole ID:	1008916563	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	535822.00
Code OB Desc:		***North83:***	4821752.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	12/13/2021	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1008916707
Layer: 1
Color: 8
General Color: BLACK
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008916709
Layer: 3
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 06
Material 2 Desc: SILT
Material 3:
Material 3 Desc:
Formation Top Depth: 10.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008916708
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 06
Material 2 Desc: SILT
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916854
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916824
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916856
Layer: 3
Plug From: 4.0
Plug To: 15.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916855
Layer: 2
Plug From: 1.0
Plug To: 4.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008916639
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1008916640
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1008916612
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008916749
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -3.0
Depth To: 5.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID:	1008916750
Layer:	2
Material:	1
Open Hole or Material:	STEEL
Depth From:	-3.0
Depth To:	1.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008916770
Layer:	1
Slot:	010
Screen Top Depth:	5.0
Screen End Depth:	15.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.375

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008916613
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Water Details

Water ID:	1008916679
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	7.5
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1008916788
Diameter:	8.5
Depth From:	0.0
Depth To:	15.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
WWIS	3	1 of 1	E/0.0	344.1 / -0.75	118 Northside Drive lot 37 St. Jacobs ON

Well ID:	7407937	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	01/12/2022
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	DRJR3NUJ	**Contractor:**	7190
Tag:	A332388	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	WATERLOO
Elevatn Reliabilty:		**Lot:**	037
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	GCT
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7407937.pdf

Additional Detail(s) (Map)

Well Completed Date:	12/14/2021
Year Completed:	2021
Depth (m):	4.572
Latitude:	43.5489805936565
Longitude:	-80.5556270140858
X:	-80.555626865346
Y:	43.548980593233715
Path:	740\7407937.pdf

Bore Hole Information

Bore Hole ID:	1008916569	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	535896.00
Code OB Desc:		**North83:**	4821877.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	12/14/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008916713
Layer:	1
Color:	8
General Color:	BLACK
Material 1:	02

Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008916714
Layer: 2
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 06
Material 2 Desc: SILT
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916862
Layer: 3
Plug From: 4.0
Plug To: 15.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916860
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916861
Layer: 2
Plug From: 1.0
Plug To: 4.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916826
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008916643
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1008916644
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1008916616
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008916753
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -3.0
Depth To: 5.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1008916754
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: -3.0
Depth To: 1.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1008916772
Layer: 1
Slot: 010
Screen Top Depth: 5.0
Screen End Depth: 15.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.375

Results of Well Yield Testing

Pumping Test Method Desc:

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

Pump Test ID: 1008916617
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Water Details

Water ID: 1008916681
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 7.5
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1008916790
Diameter: 8.5
Depth From: 0.0
Depth To: 15.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

WWIS	4	***1 of 1***	***E/0.0***	***344.9 / 0.00***	***118 Northside Drive lot 36 St. Jacobs ON***

Well ID:	7407954	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	01/12/2022
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	XZEMC78C	***Contractor:***	7190
Tag:	A332387	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	WATERLOO
Elevatn Reliabilty:		***Lot:***	036
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	GCT
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7407954.pdf

Additional Detail(s) (Map)

Well Completed Date: 12/14/2021
Year Completed: 2021
Depth (m): 4.572
Latitude: 43.548574212562
Longitude: -80.5553205155976
X: -80.55532036749143
Y: 43.54857421207568
Path: 740\7407954.pdf

Bore Hole Information

Bore Hole ID: 1008916997
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12/14/2021
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 535921.00
North83: 4821832.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1008917173
Layer: 4
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 06
Material 2 Desc: SILT
Material 3:
Material 3 Desc:
Formation Top Depth: 7.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008917170
Layer: 1
Color: 8
General Color: BLACK
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 1008917172
Layer: 3
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2: 05
Material 2 Desc: CLAY
Material 3:
Material 3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 7.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008917171
Layer: 2
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008917319
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008917321
Layer: 3
Plug From: 4.0
Plug To: 15.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008917320
Layer: 2
Plug From: 1.0
Plug To: 4.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008917281
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008917079
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1008917078
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1008917047
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008917212
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: -3.0
Depth To: 1.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1008917213
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -3.0
Depth To: 5.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1008917241
Layer: 1
Slot: 010
Screen Top Depth: 5.0
Screen End Depth: 15.0
Screen Material: 5
Screen Depth UOM: ft

Screen Diameter UOM: inch
Screen Diameter: 2.375

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1008917048
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Water Details

Water ID: 1008917128
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 7.5
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1008917261
Diameter: 8.5
Depth From: 0.0
Depth To: 15.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

WWIS **5** ***1 of 1*** ***ESE/0.0*** ***345.9 / 1.00*** ***118 Northside Drive lot 36 St. Jacobs ON***

Well ID: 7407934
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: XRDN2ZJA
Tag: A332384
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: WOOLWICH TOWNSHIP

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 01/12/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7190
Form Version: 9
Owner:
County: WATERLOO
Lot: 036
Concession:
Concession Name: GCT
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7407934.pdf

Additional Detail(s) (Map)

Well Completed Date: 12/13/2021
Year Completed: 2021
Depth (m): 4.572
Latitude: 43.5479162980155
Longitude: -80.5551644223444
X: -80.55516427364185
Y: 43.547916297444786
Path: 740\7407934.pdf

Bore Hole Information

Bore Hole ID: 1008916560
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12/13/2021
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 535934.00
North83: 4821759.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1008916704
Layer: 2
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2: 05
Material 2 Desc: CLAY
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008916703
Layer: 1
Color: 8
General Color: BLACK
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:

Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008916706
Layer: 4
Color: 2
General Color: GREY
Material 1: 06
Material 1 Desc: SILT
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 10.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008916705
Layer: 3
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 8.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916853
Layer: 3
Plug From: 4.0
Plug To: 15.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916852
Layer: 2
Plug From: 1.0
Plug To: 4.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916851
Layer: 1
Plug From: 0.0

Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916823
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008916637
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1008916638
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1008916610
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008916748
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: -3.0
Depth To: 1.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1008916747
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -3.0
Depth To: 5.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID:	1008916769
Layer:	1
Slot:	010
Screen Top Depth:	5.0
Screen End Depth:	15.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.375

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008916611
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Water Details

Water ID:	1008916678
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	7.5
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1008916787
Diameter:	8.5
Depth From:	0.0
Depth To:	15.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

WWIS **6** ***1 of 1*** ***ESE/0.0*** ***345.9 / 1.00*** ***118 Northside Drive lot 36 St. Jacobs ON***

Well ID:	7407938	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	01/12/2022
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	CCKI88R7	**Contractor:**	7190
Tag:	A332389	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	WATERLOO
Elevatn Reliabilty:		**Lot:**	036

Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	GCT
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7407938.pdf

Additional Detail(s) (Map)

Well Completed Date:	12/14/2021
Year Completed:	2021
Depth (m):	4.572
Latitude:	43.547893611997
Longitude:	-80.5539638047091
X:	-80.55396365678175
Y:	43.54789361119893
Path:	740\7407938.pdf

Bore Hole Information

Bore Hole ID:	1008916572	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	536031.00
Code OB Desc:		***North83:***	4821757.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	12/14/2021	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008916715
Layer:	1
Color:	8
General Color:	BLACK
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1008916717
Layer:	3

Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 05
Material 2 Desc: CLAY
Material 3:
Material 3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008916718
Layer: 4
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 06
Material 2 Desc: SILT
Material 3:
Material 3 Desc:
Formation Top Depth: 10.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008916716
Layer: 2
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 06
Material 2 Desc: SILT
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916863
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916827
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916864
Layer: 2
Plug From: 1.0
Plug To: 4.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916865
Layer: 3
Plug From: 4.0
Plug To: 15.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008916646
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1008916645
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1008916618
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008916755
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -3.0
Depth To: 5.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 1008916756
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: -3.0

Depth To:	1.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008916773
Layer:	1
Slot:	010
Screen Top Depth:	5.0
Screen End Depth:	15.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.375

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008916619
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Water Details

Water ID:	1008916682
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	7.5
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1008916791
Diameter:	8.5
Depth From:	0.0
Depth To:	15.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

WWIS | ***7*** | ***1 of 1*** | ***E/0.0*** | ***345.9 / 1.00*** | ***118 Northside Drive lot 36 St. Jacobs ON***

Well ID:	7407939	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	01/12/2022

Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	4TDQAWCZ	***Contractor:***	7190
Tag:	A332390	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	WATERLOO
Elevatn Reliabilty:		***Lot:***	036
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	GCT
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/740\7407939.pdf

Additional Detail(s) (Map)

Well Completed Date:	12/15/2021
Year Completed:	2021
Depth (m):	4.572
Latitude:	43.54823494096
Longitude:	-80.5537508398052
X:	-80.55375069141705
Y:	43.548234940306784
Path:	740\7407939.pdf

Bore Hole Information

Bore Hole ID:	1008916575	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	536048.00
Code OB Desc:		***North83:***	4821795.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	12/15/2021	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008916719
Layer:	1
Color:	8
General Color:	BLACK
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 1008916720
Layer: 2
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 05
Material 2 Desc: CLAY
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008916721
Layer: 3
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 06
Material 2 Desc: SILT
Material 3:
Material 3 Desc:
Formation Top Depth: 5.0
Formation End Depth: 10.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008916722
Layer: 4
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 10.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916868
Layer: 3
Plug From: 4.0
Plug To: 15.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916867
Layer: 2
Plug From: 1.0
Plug To: 4.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916866
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008916828
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008916647
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1008916648
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1008916620
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008916757
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -3.0
Depth To: 5.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID:	1008916758
Layer:	2
Material:	1
Open Hole or Material:	STEEL
Depth From:	-3.0
Depth To:	1.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008916774
Layer:	1
Slot:	010
Screen Top Depth:	5.0
Screen End Depth:	15.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.375

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008916621
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Water Details

Water ID:	1008916683
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	10.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1008916792
Diameter:	8.5
Depth From:	0.0
Depth To:	15.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

WWIS	***9***	***1 of 1***	***NE/0.9***	***344.8 / -0.03***	***3246 MOSER YOUNG RD lot 6 con***

Well ID:	7042372	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	04/04/2007
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z42533	**Contractor:**	7146
Tag:		**Form Version:**	3
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	WATERLOO
Elevatn Reliabilty:		**Lot:**	006
Depth to Bedrock:		**Concession:**	10
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: WELLESLEY TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7042372.pdf

Additional Detail(s) (Map)

Well Completed Date: 05/11/2006
Year Completed: 2006
Depth (m):
Latitude: 43.5513718388427
Longitude: -80.554631430503
X: -80.55463128237719
Y: 43.551371838130805
Path: 704\7042372.pdf

Bore Hole Information

Bore Hole ID:	11764867	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	535975.00
Code OB Desc:		**North83:**	4822143.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	05/11/2006	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Annular Space/Abandonment Sealing Record

Plug ID: 933316699
Layer: 1
Plug From: 0.0
Plug To: 50.0
Plug Depth UOM: m

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

Method of Construction & Well Use

Method Construction ID: 967042372
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 11772587
Casing No: 1
Comment:
Alt Name:

WWIS **10** ***1 of 1*** ***SSW/47.8*** ***345.9 / 1.00*** ***lot 37 ON***

Well ID: 6503243
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: WOOLWICH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 07/23/1970
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3518
Form Version: 1
Owner:
County: WATERLOO
Lot: 037
Concession:
Concession Name: GCT
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/650\6503243.pdf

Additional Detail(s) (Map)

Well Completed Date: 06/04/1970
Year Completed: 1970
Depth (m): 45.72
Latitude: 43.5451783331605
Longitude: -80.5596396379852
X: -80.55963948967626
Y: 43.54517833218839
Path: 650\6503243.pdf

Bore Hole Information

Bore Hole ID: 10454691
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 06/04/1970

Elevation:
Elevrc:
Zone: 17
East83: 535574.10
North83: 4821453.00
Org CS:
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m

Remarks: ***Location Method:*** p4
Location Method Desc: Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932562278
Layer: 3
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 14
Material 2 Desc: HARDPAN
Material 3:
Material 3 Desc:
Formation Top Depth: 50.0
Formation End Depth: 150.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932562276
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 13
Material 2 Desc: BOULDERS
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932562277
Layer: 2
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 11
Material 2 Desc: GRAVEL
Material 3:
Material 3 Desc:
Formation Top Depth: 40.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966503243
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11003261
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930738556
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 160.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 996503243
Pump Set At:
Static Level: 40.0
Final Level After Pumping: 90.0
Recommended Pump Depth: 90.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 7
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934335665
Test Type: Recovery
Test Duration: 15
Test Level: 40.0
Test Level UOM: ft

Water Details

Water ID: 933941726
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 150.0
Water Found Depth UOM: ft

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
WWIS	12	1 of 1	ENE/49.0	344.9 / 0.00	lot 37 ON

Well ID:	6503542	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Municipal	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	03/13/1972
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	3518
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	WATERLOO
Elevatn Reliabilty:		**Lot:**	037
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	GCT
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/650\6503542.pdf

Additional Detail(s) (Map)

Well Completed Date:	07/12/1966
Year Completed:	1966
Depth (m):	63.0936
Latitude:	43.5506933930457
Longitude:	-80.5541747838088
X:	-80.55417463568665
Y:	43.550693392018296
Path:	650\6503542.pdf

Bore Hole Information

Bore Hole ID:	10454976	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	536012.29
Code OB Desc:		**North83:**	4822067.85
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	07/12/1966	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	gps
Location Method Desc:	from gps		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932563721
Layer:	5
Color:	3
General Color:	BLUE
Material 1:	17

Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 138.0
Formation End Depth: 207.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932563719
Layer: 3
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2: 09
Material 2 Desc: MEDIUM SAND
Material 3: 06
Material 3 Desc: SILT
Formation Top Depth: 23.0
Formation End Depth: 33.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932563718
Layer: 2
Color:
General Color:
Material 1: 09
Material 1 Desc: MEDIUM SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 23.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932563717
Layer: 1
Color:
General Color:
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932563720
Layer: 4
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2: 09
Material 2 Desc: MEDIUM SAND
Material 3: 12
Material 3 Desc: STONES
Formation Top Depth: 33.0
Formation End Depth: 138.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966503542
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11003546
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930738924
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 138.0
Casing Diameter: 8.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930738925
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 207.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 996503542
Pump Set At:
Static Level: 34.0
Final Level After Pumping: 129.0
Recommended Pump Depth: 165.0
Pumping Rate: 60.0
Flowing Rate:

Recommended Pump Rate: 60.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 5
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934605716
Test Type: Draw Down
Test Duration: 30
Test Level: 126.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934336258
Test Type: Draw Down
Test Duration: 15
Test Level: 122.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935124669
Test Type: Draw Down
Test Duration: 60
Test Level: 127.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934861048
Test Type: Draw Down
Test Duration: 45
Test Level: 126.0
Test Level UOM: ft

Water Details

Water ID: 933942011
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 150.0
Water Found Depth UOM: ft

Water Details

Water ID: 933942013
Layer: 3
Kind Code: 3
Kind: SULPHUR
Water Found Depth: 205.0
Water Found Depth UOM: ft

Water Details

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

Water ID: 933942012
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 178.0
Water Found Depth UOM: ft

WWIS **13** **1 of 1** **ESE/63.4** **346.6 / 1.69** **lot 37 ON**

Well ID: 6502672
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: WOOLWICH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 01/11/1965
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3533
Form Version: 1
Owner:
County: WATERLOO
Lot: 037
Concession:
Concession Name: GCT
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/650\6502672.pdf

Additional Detail(s) (Map)

Well Completed Date: 07/03/1964
Year Completed: 1964
Depth (m): 46.6344
Latitude: 43.5471368888132
Longitude: -80.5538691141783
X: -80.55386896546634
Y: 43.54713688848519
Path: 650\6502672.pdf

Bore Hole Information

Bore Hole ID: 10454121
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 07/03/1964
Remarks:
Location Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 536039.10
North83: 4821673.00
Org CS:
UTMRC: 5
UTMRC Desc: margin of error : 100 m - 300 m
Location Method: p5

Overburden and Bedrock Materials Interval

Formation ID: 932559040
Layer: 2
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559041
Layer: 3
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2: 14
Material 2 Desc: HARDPAN
Material 3:
Material 3 Desc:
Formation Top Depth: 15.0
Formation End Depth: 105.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559044
Layer: 6
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2: 09
Material 2 Desc: MEDIUM SAND
Material 3: 12
Material 3 Desc: STONES
Formation Top Depth: 135.0
Formation End Depth: 146.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559045
Layer: 7
Color:
General Color:
Material 1: 26
Material 1 Desc: ROCK
Material 2:
Material 2 Desc:
Material 3:

Material 3 Desc:
Formation Top Depth: 146.0
Formation End Depth: 153.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559042
Layer: 4
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2: 14
Material 2 Desc: HARDPAN
Material 3:
Material 3 Desc:
Formation Top Depth: 105.0
Formation End Depth: 115.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559043
Layer: 5
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2: 14
Material 2 Desc: HARDPAN
Material 3:
Material 3 Desc:
Formation Top Depth: 115.0
Formation End Depth: 135.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559039
Layer: 1
Color:
General Color:
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2: 01
Material 2 Desc: FILL
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966502672
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11002691
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930737797
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 153.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 996502672
Pump Set At:
Static Level: 52.0
Final Level After Pumping: 70.0
Recommended Pump Depth: 75.0
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 24
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933941098
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 147.0
Water Found Depth UOM: ft

WWIS | **18** | ***1 of 1*** | ***E/82.3*** | ***344.9 / 0.00*** | ***lot 37 ON***

Well ID: 6502670
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 06/26/1956
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1705
Form Version: 1
Owner:
County: WATERLOO

Elevatn Reliabilty:		**Lot:**	037
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	GCT
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: WOOLWICH TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/650\6502670.pdf

Additional Detail(s) (Map)

Well Completed Date: 05/17/1956
Year Completed: 1956
Depth (m): 51.816
Latitude: 43.5493886009566
Longitude: -80.5540381990932
X: -80.55403805060268
Y: 43.549388600566495
Path: 650\6502670.pdf

Bore Hole Information

Bore Hole ID:	10454119	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	536024.10
Code OB Desc:		**North83:**	4821923.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	05/17/1956	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5

Location Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932559025
Layer: 2
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559028

Layer: 5
Color: 3
General Color: BLUE
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 140.0
Formation End Depth: 146.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559024
Layer: 1
Color:
General Color:
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559030
Layer: 7
Color:
General Color:
Material 1: 26
Material 1 Desc: ROCK
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 152.0
Formation End Depth: 170.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559026
Layer: 3
Color:
General Color:
Material 1: 09
Material 1 Desc: MEDIUM SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 8.0
Formation End Depth: 31.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID:	932559027
Layer:	4
Color:	
General Color:	
Material 1:	14
Material 1 Desc:	HARDPAN
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	09
Material 3 Desc:	MEDIUM SAND
Formation Top Depth:	31.0
Formation End Depth:	140.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932559029
Layer:	6
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	146.0
Formation End Depth:	152.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966502670
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	11002689
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930737794
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	161.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930737795
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	170.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	996502670
Pump Set At:	
Static Level:	55.0
Final Level After Pumping:	58.0
Recommended Pump Depth:	
Pumping Rate:	10.0
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	7
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933941096
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	161.0
Water Found Depth UOM:	ft

WWIS **19** ***1 of 1*** ***SSW/87.7*** ***344.6 / -0.27*** ***Hawkesville Rd Waterloo ON***

Well ID:	7359804	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	06/03/2020
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z328863	**Contractor:**	7610
Tag:		**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	WATERLOO
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/735\7359804.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/20/2020
Year Completed: 2020
Depth (m):
Latitude: 43.5449018828037
Longitude: -80.5603360903572
X: -80.5603359416428
Y: 43.54490188199184
Path: 735\7359804.pdf

Bore Hole Information

Bore Hole ID: 1008302374
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 03/20/2020
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 535518.00
North83: 4821422.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Annular Space/Abandonment Sealing Record

Plug ID: 1008418901
Layer: 1
Plug From: 0.0
Plug To: 15.0
Plug Depth UOM: ft

Pipe Information

Pipe ID: 1008418142
Casing No: 0
Comment:
Alt Name:

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1008419904
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:

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

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

WWIS 23 | *1 of 1* | *SE/106.4* | *347.9 / 3.08* | *lot 37 ON*

Well ID:	6503543	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Municipal	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	03/13/1972
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	3518
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	WATERLOO
Elevatn Reliabilty:		**Lot:**	037
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	GCT
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: WOOLWICH TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/650\6503543.pdf

Additional Detail(s) (Map)

Well Completed Date: 08/15/1966
Year Completed: 1966
Depth (m): 58.2168
Latitude: 43.5464311718351
Longitude: -80.5554032396129
X: -80.55540309171779
Y: 43.546431171103194
Path: 650\6503543.pdf

Bore Hole Information

Bore Hole ID:	10454977	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	535915.59
Code OB Desc:		**North83:**	4821593.96
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	08/15/1966	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	gps

Location Method Desc: from gps
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932563725
Layer: 4
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 144.0
Formation End Depth: 150.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932563722
Layer: 1
Color:
General Color:
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932563724
Layer: 3
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2: 09
Material 2 Desc: MEDIUM SAND
Material 3: 12
Material 3 Desc: STONES
Formation Top Depth: 6.0
Formation End Depth: 144.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932563726
Layer: 5
Color:
General Color:
Material 1: 26
Material 1 Desc: ROCK
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 150.0
Formation End Depth: 153.0

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932563723
Layer: 2
Color:
General Color:
Material 1: 11
Material 1 Desc: GRAVEL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932563727
Layer: 6
Color: 3
General Color: BLUE
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 153.0
Formation End Depth: 191.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966503543
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11003547
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930738926
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 154.0
Casing Diameter: 8.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930738927
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 191.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 996503543
Pump Set At:
Static Level: 51.0
Final Level After Pumping: 154.0
Recommended Pump Depth: 180.0
Pumping Rate: 60.0
Flowing Rate:
Recommended Pump Rate: 55.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 8
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934605717
Test Type: Draw Down
Test Duration: 30
Test Level: 144.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934861049
Test Type: Draw Down
Test Duration: 45
Test Level: 146.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934336259
Test Type: Draw Down
Test Duration: 15
Test Level: 138.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935124670
Test Type: Draw Down
Test Duration: 60
Test Level: 148.0

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

Test Level UOM: ft

Water Details

Water ID: 933942014
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 183.0
Water Found Depth UOM: ft

WWIS	27	1 of 1	WSW/148.2	349.9 / 5.00	lot 37 ON

Well ID: 6509413
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 249679
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: WOOLWICH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 08/05/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1737
Form Version: 1
Owner:
County: WATERLOO
Lot: 037
Concession:
Concession Name: GCT
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/650\6509413.pdf

Additional Detail(s) (Map)

Well Completed Date: 02/05/2003
Year Completed: 2003
Depth (m): 47.8536
Latitude: 43.5474498645105
Longitude: -80.5626287546849
X: -80.56262860658143
Y: 43.54744986420401
Path: 650\6509413.pdf

Bore Hole Information

Bore Hole ID: 10547954
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02/05/2003
Remarks:
Location Method Desc: Lot centroid
Elevrc Desc:
Location Source Date:
Improvement Location Source:

Elevation:
Elevrc:
Zone: 17
East83: 535331.30
North83: 4821704.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: lot

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932939548
Layer: 4
Color:
General Color:
Material 1: 11
Material 1 Desc: GRAVEL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 149.0
Formation End Depth: 154.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932939546
Layer: 2
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 32.0
Formation End Depth: 123.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932939549
Layer: 5
Color: 6
General Color: BROWN
Material 1: 11
Material 1 Desc: GRAVEL
Material 2: 05
Material 2 Desc: CLAY
Material 3:
Material 3 Desc:
Formation Top Depth: 154.0
Formation End Depth: 157.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932939545
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05

Material 1 Desc: CLAY
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 32.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932939547
Layer: 3
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 06
Material 2 Desc: SILT
Material 3: 05
Material 3 Desc: CLAY
Formation Top Depth: 123.0
Formation End Depth: 149.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933244614
Layer: 1
Plug From: 0.0
Plug To: 20.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933244615
Layer: 2
Plug From: 20.0
Plug To: 154.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966509413
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 11096524
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930746402

Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933406717
Layer: 1
Slot: 030
Screen Top Depth: 151.0
Screen End Depth: 154.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 5.0

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 996509413
Pump Set At:
Static Level: 41.0
Final Level After Pumping: 61.0
Recommended Pump Depth: 100.0
Pumping Rate: 12.0
Flowing Rate:
Recommended Pump Rate: 10.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 30
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934349497
Test Type: Recovery
Test Duration: 15
Test Level: 51.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935127100
Test Type: Recovery
Test Duration: 60
Test Level: 41.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934608511
Test Type: Recovery
Test Duration: 30
Test Level: 41.0

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934862748
Test Type: Recovery
Test Duration: 45
Test Level: 41.0
Test Level UOM: ft

Water Details

Water ID: 934041910
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 154.0
Water Found Depth UOM: ft

WWIS **28** ***1 of 1*** ***NNE/165.4*** ***352.9 / 8.05*** ***lot 45 ON***

Well ID: 6502701
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: WOOLWICH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 06/21/1955
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1705
Form Version: 1
Owner:
County: WATERLOO
Lot: 045
Concession:
Concession Name: GCT
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/650\6502701.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/21/1955
Year Completed: 1955
Depth (m): 62.7888
Latitude: 43.5529954835441
Longitude: -80.5553734320193
X: -80.55537328323318
Y: 43.552995483087436
Path: 650\6502701.pdf

Bore Hole Information

Bore Hole ID: 10454150
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:

Elevation:
Elevrc:
Zone: 17
East83: 535914.10
North83: 4822323.00

Open Hole:
Org CS:
Cluster Kind:
UTMRC: 9
Date Completed: 04/21/1955
UTMRC Desc: unknown UTM
Remarks:
Location Method: p9
Location Method Desc: Original Pre1985 UTM Rel Code 9: unknown UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932559185
Layer: 4
Color:
General Color:
Material 1: 14
Material 1 Desc: HARDPAN
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 80.0
Formation End Depth: 104.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559187
Layer: 6
Color:
General Color:
Material 1: 14
Material 1 Desc: HARDPAN
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 105.0
Formation End Depth: 156.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559190
Layer: 9
Color: 3
General Color: BLUE
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 177.0
Formation End Depth: 206.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559189
Layer: 8
Color: 3
General Color: BLUE
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 167.0
Formation End Depth: 177.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559182
Layer: 1
Color:
General Color:
Material 1: 09
Material 1 Desc: MEDIUM SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 40.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559188
Layer: 7
Color:
General Color:
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 156.0
Formation End Depth: 167.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559186
Layer: 5
Color: 2
General Color: GREY
Material 1: 09
Material 1 Desc: MEDIUM SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:

Formation Top Depth: 104.0
Formation End Depth: 105.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559183
Layer: 2
Color:
General Color:
Material 1: 14
Material 1 Desc: HARDPAN
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 40.0
Formation End Depth: 78.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559184
Layer: 3
Color:
General Color:
Material 1: 11
Material 1 Desc: GRAVEL
Material 2: 09
Material 2 Desc: MEDIUM SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 78.0
Formation End Depth: 80.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966502701
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11002720
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930737833
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 206.0
Casing Diameter: 4.0
Casing Diameter UOM: inch

Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930737832
Layer: 1
Material:
Open Hole or Material:
Depth From:
Depth To: 167.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 996502701
Pump Set At:
Static Level: 65.0
Final Level After Pumping: 78.0
Recommended Pump Depth:
Pumping Rate: 10.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 6
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933941128
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 206.0
Water Found Depth UOM: ft

Water Details

Water ID: 933941127
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 150.0
Water Found Depth UOM: ft

WWIS	**31**	***1 of 1***	***SSE/176.6***	***349.9 / 5.00***	***lot 37 ON***

Well ID: 6502668
Construction Date:
Use 1st: Livestock
Use 2nd: Domestic
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 05/27/1950
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4725

Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	WATERLOO
Elevatn Reliabilty:		**Lot:**	037
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	GCT
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/650\6502668.pdf

Additional Detail(s) (Map)

Well Completed Date:	12/23/1949
Year Completed:	1949
Depth (m):	52.4256
Latitude:	43.5435413332285
Longitude:	-80.5554429213192
X:	-80.55544277235043
Y:	43.54354133247469
Path:	650\6502668.pdf

Bore Hole Information

Bore Hole ID:	10454117	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	535914.10
Code OB Desc:		**North83:**	4821273.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	9
Date Completed:	12/23/1949	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	p9
Location Method Desc:	Original Pre1985 UTM Rel Code 9: unknown UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932559009
Layer:	3
Color:	
General Color:	
Material 1:	14
Material 1 Desc:	HARDPAN
Material 2:	12
Material 2 Desc:	STONES
Material 3:	
Material 3 Desc:	
Formation Top Depth:	14.0
Formation End Depth:	148.0
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID: 932559007
Layer: 1
Color:
General Color:
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559008
Layer: 2
Color: 5
General Color: YELLOW
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 14.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559011
Layer: 5
Color:
General Color:
Material 1: 26
Material 1 Desc: ROCK
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 164.0
Formation End Depth: 172.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559010
Layer: 4
Color:
General Color:
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 148.0

Formation End Depth: 164.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966502668
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11002687
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930737791
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 172.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930737790
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 164.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 996502668
Pump Set At:
Static Level: 46.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate: 16.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 10
Pumping Duration MIN: 0
Flowing: No

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

Water Details

Water ID:	933941094
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	172.0
Water Found Depth UOM:	ft

WWIS	**33**	***1 of 1***	***NW/205.0***	***349.5 / 4.67***	***lot 37 ON***

Well ID:	6502669	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Livestock	***Data Entry Status:***	
Use 2nd:	Domestic	***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	01/14/1952
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:		***Contractor:***	4725
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	WATERLOO
Elevatn Reliabilty:		***Lot:***	037
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	GCT
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	10454118	***Tag No:***	
Depth M:	55.4736	***Contractor:***	4725
Year Completed:	1951	***Latitude:***	43.552122549772
Well Completed Dt:	09/08/1951	***Longitude:***	-80.5624983998351
Audit No:		***Y:***	43.552122548972825
Path:		***X:***	-80.5624982516672

Bore Hole Information

Bore Hole ID:	10454118	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	535339.10
Code OB Desc:		***North83:***	4822223.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	09/08/1951	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5
Location Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 932559014
Layer: 3
Color:
General Color:
Material 1: 14
Material 1 Desc: HARDPAN
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 15.0
Formation End Depth: 34.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559016
Layer: 5
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 09
Material 2 Desc: MEDIUM SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 35.0
Formation End Depth: 65.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559015
Layer: 4
Color:
General Color:
Material 1: 11
Material 1 Desc: GRAVEL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 34.0
Formation End Depth: 35.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559019
Layer: 8
Color: 3
General Color: BLUE
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 98.0
Formation End Depth: 104.0

Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559021
Layer: 10
Color:
General Color:
Material 1: 14
Material 1 Desc: HARDPAN
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 106.0
Formation End Depth: 142.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559020
Layer: 9
Color:
General Color:
Material 1: 12
Material 1 Desc: STONES
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 104.0
Formation End Depth: 106.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559018
Layer: 7
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 09
Material 2 Desc: MEDIUM SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 82.0
Formation End Depth: 98.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559012
Layer: 1
Color:
General Color:
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:

Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559017
Layer: 6
Color:
General Color:
Material 1: 14
Material 1 Desc: HARDPAN
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 65.0
Formation End Depth: 82.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559013
Layer: 2
Color: 5
General Color: YELLOW
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559022
Layer: 11
Color:
General Color:
Material 1: 09
Material 1 Desc: MEDIUM SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 142.0
Formation End Depth: 153.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932559023
Layer: 12

Color:
General Color:
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 153.0
Formation End Depth: 182.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966502669
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11002688
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930737793
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 182.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930737792
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 164.0
Casing Diameter: 4.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 996502669
Pump Set At:
Static Level: 48.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate: 15.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft

Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	8
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933941095
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	182.0
Water Found Depth UOM:	ft

WWIS **34** ***1 of 1*** ***E/206.2*** ***344.9 / 0.07*** ***lot 36 ON***

Well ID:	6503087	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Livestock	***Data Entry Status:***	
Use 2nd:	Domestic	***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	10/09/1969
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:		***Contractor:***	2519
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	WATERLOO
Elevatn Reliabilty:		***Lot:***	036
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	GCT
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/650\6503087.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/01/1969
Year Completed:	1969
Depth (m):	6.096
Latitude:	43.5498295996822
Longitude:	-80.5516828202263
X:	-80.55168267132753
Y:	43.54982959906995
Path:	650\6503087.pdf

Bore Hole Information

Bore Hole ID:	10454535	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	536214.10
Code OB Desc:		***North83:***	4821973.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	4

Date Completed: 10/01/1969 **UTMRC Desc:** margin of error : 30 m - 100 m
Remarks: **Location Method:** p4
Location Method Desc: Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 932561397
Layer: 1
Color: 8
General Color: BLACK
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932561398
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932561399
Layer: 3
Color: 6
General Color: BROWN
Material 1: 10
Material 1 Desc: COARSE SAND
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 20.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 966503087
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 11003105
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930738356
Layer: 1
Material: 2
Open Hole or Material: GALVANIZED
Depth From:
Depth To: 20.0
Casing Diameter: 30.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 996503087
Pump Set At:
Static Level: 8.0
Final Level After Pumping:
Recommended Pump Depth: 18.0
Pumping Rate:
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934335156
Test Type: Recovery
Test Duration: 15
Test Level: 10.0
Test Level UOM: ft

Water Details

Water ID: 933941530
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 11.0
Water Found Depth UOM: ft

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
WWIS	36	1 of 1	S/209.0	343.3 / -1.56	51 Hawkesville Road lot 37 St. Jacobs ON

Well ID:	7398389	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	09/21/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	6VPXWL8Q	**Contractor:**	7747
Tag:	A333477	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	WATERLOO
Elevatn Reliabilty:		**Lot:**	037
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	GCT
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/739\7398389.pdf

Additional Detail(s) (Map)

Well Completed Date:	07/27/2021
Year Completed:	2021
Depth (m):	15.24
Latitude:	43.542712179889
Longitude:	-80.5575669174748
X:	-80.55756676817477
Y:	43.54271217955902
Path:	739\7398389.pdf

Bore Hole Information

Bore Hole ID:	1008789681	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	535743.00
Code OB Desc:		**North83:**	4821180.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	07/27/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1008789987
Layer:	1
Color:	8
General Color:	BLACK
Material 1:	02

Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3: 77
Material 3 Desc: LOOSE
Formation Top Depth: 0.0
Formation End Depth: 0.6600000262260437
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008789988
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 06
Material 2 Desc: SILT
Material 3: 66
Material 3 Desc: DENSE
Formation Top Depth: 0.6600000262260437
Formation End Depth: 12.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008789989
Layer: 3
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 34
Material 2 Desc: TILL
Material 3: 66
Material 3 Desc: DENSE
Formation Top Depth: 12.0
Formation End Depth: 35.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008789990
Layer: 4
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 34
Material 2 Desc: TILL
Material 3: 66
Material 3 Desc: DENSE
Formation Top Depth: 35.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008790268
Layer: 2
Plug From: 0.5
Plug To: 38.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008790269
Layer: 3
Plug From: 38.0
Plug To: 50.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008790181
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008790267
Layer: 1
Plug From: 0.0
Plug To: 0.5
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008789846
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1008789798
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008790050
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: -3.0
Depth To: 40.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID:	1008790051
Layer:	2
Material:	1
Open Hole or Material:	STEEL
Depth From:	-3.0
Depth To:	1.0
Casing Diameter:	4.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1008790095
Layer:	1
Slot:	010
Screen Top Depth:	40.0
Screen End Depth:	50.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.375

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008789799
Pump Set At:	
Static Level:	35.0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Water Details

Water ID:	1008789913
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	35.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1008790129
Diameter:	8.5
Depth From:	0.0
Depth To:	50.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
WWIS	***37***	***1 of 1***	***NNW/217.1***	***346.7 / 1.87***	***1764 KING ST lot 46***

Well ID:	7393905	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Water Supply	**Date Received:**	07/28/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z362876	**Contractor:**	7221
Tag:	A310457	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	WATERLOO
Elevatn Reliabilty:		**Lot:**	046
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	GCT
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: WOOLWICH TOWNSHIP
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/739\7393905.pdf

Additional Detail(s) (Map)

Well Completed Date: 06/23/2021
Year Completed: 2021
Depth (m):
Latitude: 43.5541784798751
Longitude: -80.5609248206552
X: -80.5609246721965
Y: 43.55417847902764
Path: 739\7393905.pdf

Bore Hole Information

Bore Hole ID:	1008729969	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	535465.00
Code OB Desc:		**North83:**	4822452.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	06/23/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1009927429
Layer: 3
Color: 6
General Color: BROWN
Material 1: 11
Material 1 Desc: GRAVEL

Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0999999046325684
Formation End Depth: 3.5999999046325684
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009927433
Layer: 7
Color: 6
General Color: BROWN
Material 1: 11
Material 1 Desc: GRAVEL
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 18.799999237060547
Formation End Depth: 30.100000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009927427
Layer: 1
Color: 6
General Color: BROWN
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 0.6000000238418579
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009927428
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 06
Material 2 Desc: SILT
Material 3:
Material 3 Desc:
Formation Top Depth: 0.6000000238418579
Formation End Depth: 2.0999999046325684
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009927431

Layer: 5
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 28
Material 2 Desc: SAND
Material 3: 73
Material 3 Desc: HARD
Formation Top Depth: 7.300000190734863
Formation End Depth: 18.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009927434
Layer: 8
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 30.100000381469727
Formation End Depth: 30.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009927430
Layer: 4
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 06
Material 2 Desc: SILT
Material 3: 73
Material 3 Desc: HARD
Formation Top Depth: 3.5999999046325684
Formation End Depth: 7.300000190734863
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009927432
Layer: 6
Color: 6
General Color: BROWN
Material 1: 11
Material 1 Desc: GRAVEL
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 18.0
Formation End Depth: 18.799999237060547
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009927983
Layer: 1
Plug From: 0.0
Plug To: 27.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1009928806
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1009768612
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1009929196
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From: 25.799999237060547
Depth To: 27.100000381469727
Casing Diameter: 13.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1009929195
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 1.2000000476837158
Depth To: 27.0
Casing Diameter: 16.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1009929405
Layer: 2
Slot: 50
Screen Top Depth: 28.399999618530273
Screen End Depth: 29.899999618530273
Screen Material: 8
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 14.0

Construction Record - Screen

Screen ID: 1009929404
Layer: 1
Slot: 35
Screen Top Depth: 27.100000381469727
Screen End Depth: 28.399999618530273
Screen Material: 8
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 14.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1009930034
Pump Set At: 15.199999809265137
Static Level: 8.680000305175781
Final Level After Pumping: 11.520000457763672
Recommended Pump Depth: 24.0
Pumping Rate: 94.5999984741211
Flowing Rate:
Recommended Pump Rate: 227.0
Levels UOM: m
Rate UOM: LPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 0
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing:

Draw Down & Recovery

Pump Test Detail ID: 1009933886
Test Type: Draw Down
Test Duration: 3
Test Level: 10.239999771118164
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933885
Test Type: Draw Down
Test Duration: 2
Test Level: 10.079999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933896
Test Type: Draw Down
Test Duration: 60
Test Level: 11.520000457763672
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933904
Test Type: Recovery
Test Duration: 20
Test Level: 9.020000457763672
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933891
Test Type: Draw Down
Test Duration: 20
Test Level: 11.0
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933893
Test Type: Draw Down
Test Duration: 30
Test Level: 11.210000038146973
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933906
Test Type: Recovery
Test Duration: 30
Test Level: 8.770000457763672
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933884
Test Type: Draw Down
Test Duration: 1
Test Level: 9.75
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933897
Test Type: Recovery
Test Duration: 1
Test Level: 10.180000305175781
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933900
Test Type: Recovery
Test Duration: 4
Test Level: 9.720000267028809
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933902
Test Type: Recovery
Test Duration: 10
Test Level: 9.380000114440918
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933903
Test Type: Recovery

Test Duration: 15
Test Level: 9.170000076293945
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933908
Test Type: Recovery
Test Duration: 50
Test Level: 8.680000305175781
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933894
Test Type: Draw Down
Test Duration: 40
Test Level: 11.329999923706055
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933907
Test Type: Recovery
Test Duration: 40
Test Level: 8.710000038146973
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933887
Test Type: Draw Down
Test Duration: 4
Test Level: 10.359999656677246
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933890
Test Type: Draw Down
Test Duration: 15
Test Level: 10.90999984741211
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933898
Test Type: Recovery
Test Duration: 2
Test Level: 9.930000305175781
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933901
Test Type: Recovery
Test Duration: 5
Test Level: 9.6899995803833
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933909
Test Type: Recovery
Test Duration: 60
Test Level: 8.680000305175781
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933888
Test Type: Draw Down
Test Duration: 5
Test Level: 10.420000076293945
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933905
Test Type: Recovery
Test Duration: 25
Test Level: 8.899999618530273
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933889
Test Type: Draw Down
Test Duration: 10
Test Level: 10.720000267028809
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933892
Test Type: Draw Down
Test Duration: 25
Test Level: 11.119999885559082
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933895
Test Type: Draw Down
Test Duration: 50
Test Level: 11.460000038146973
Test Level UOM: m

Draw Down & Recovery

Pump Test Detail ID: 1009933899
Test Type: Recovery
Test Duration: 3
Test Level: 9.8100004196167
Test Level UOM: m

Water Details

Water ID: 1009929696
Layer: 1
Kind Code: 8

Kind: Untested
Water Found Depth: 27.100000381469727
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1009928529
Diameter: 22.200000762939453
Depth From: 6.099999904632568
Depth To: 27.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1009928528
Diameter: 25.5
Depth From: 0.0
Depth To: 6.099999904632568
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1009928530
Diameter: 15.600000381469727
Depth From: 27.0
Depth To: 30.5
Hole Depth UOM: m
Hole Diameter UOM: cm

WWIS **39** ***1 of 1*** ***W/231.8*** ***350.6 / 5.78*** ***1801 KING ST. N. lot 37 ST. JACOBS ON***

Well ID: 7309333
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Abandoned-Supply
Water Type:
Casing Material:
Audit No: Z284107
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: WOOLWICH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 04/16/2018
Selected Flag: TRUE
Abandonment Rec: Yes
Contractor: 6231
Form Version: 7
Owner:
County: WATERLOO
Lot: 037
Concession:
Concession Name: GCT
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/730\7309333.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/14/2018
Year Completed: 2018
Depth (m):
Latitude: 43.5496233341117

Longitude: -80.563532840924
X: -80.56353269215957
Y: 43.549623332994926
Path: 730\7309333.pdf

Bore Hole Information

Bore Hole ID: 1007018428
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 03/14/2018
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 535257.00
North83: 4821945.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1007176110
Layer:
Color:
General Color:
Material 1:
Material 1 Desc:
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth:
Formation End Depth:
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007176116
Layer: 1
Plug From: 20.0
Plug To: 19.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007176119
Layer: 4
Plug From: 7.0
Plug To: 0.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007176117

Layer: 2
Plug From: 19.0
Plug To: 8.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1007176118
Layer: 3
Plug From: 8.0
Plug To: 7.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1007176115
Method Construction Code:
Method Construction:
Other Method Construction:

Pipe Information

Pipe ID: 1007176109
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007176113
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1007176114
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter:

Water Details

Water ID: 1007176112
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID:	1007176111
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

WWIS **40** ***1 of 1*** ***SE/233.6*** ***348.6 / 3.72*** ***Hawksville Rd Waterloo ON***

Well ID:	7359803	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	06/03/2020
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	Yes
Audit No:	Z328864	***Contractor:***	7610
Tag:		***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	WATERLOO
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/735\7359803.pdf

Additional Detail(s) (Map)

Well Completed Date:	03/20/2020
Year Completed:	2020
Depth (m):	
Latitude:	43.5441221135524
Longitude:	-80.5542886955181
X:	-80.55428854801538
Y:	43.54412211346688
Path:	735\7359803.pdf

Bore Hole Information

Bore Hole ID:	1008302371	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	536007.00
Code OB Desc:		***North83:***	4821338.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	03/20/2020	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			

Supplier Comment:

Annular Space/Abandonment Sealing Record

Plug ID: 1008418900
Layer: 1
Plug From:
Plug To:
Plug Depth UOM:

Pipe Information

Pipe ID: 1008418141
Casing No: 0
Comment:
Alt Name:

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1008419903
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

WWIS **42** | ***1 of 1*** | ***SE/242.3*** | ***347.9 / 3.05*** | ***lot 36 ON***

Well ID: 7328146
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: C42205
Tag: A250717
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: WOOLWICH TOWNSHIP
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 02/04/2019
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7464
Form Version: 8
Owner:
County: WATERLOO
Lot: 036
Concession:
Concession Name: GCT
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

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

Bore Hole ID:	1007367162	**Tag No:**	A250717
Depth M:		**Contractor:**	7464
Year Completed:	2018	**Latitude:**	43.5442296301634
Well Completed Dt:	12/13/2018	**Longitude:**	-80.5541517401928
Audit No:	C42205	**Y:**	43.544229629320775
Path:		**X:**	-80.55415159179901

Bore Hole Information

Bore Hole ID:	1007367162	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	536018.00
Code OB Desc:		**North83:**	4821350.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	12/13/2018	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
WWIS	43	3 of 7	ESE/247.8	345.9 / 1.08	1550 King Street North lot 36 St. Jacobs ON

Well ID:	7437680	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	01/11/2023
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	IAVZ8Z4Z	**Contractor:**	7282
Tag:	A367509	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	WATERLOO
Elevatn Reliabilty:		**Lot:**	036
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	GCT
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:	Job No. 57775		

Bore Hole Information

Bore Hole ID:	1009315263	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	536210.00
Code OB Desc:		**North83:**	4821545.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/18/2022	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			

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

Overburden and Bedrock Materials Interval

Formation ID: 1009315466
Layer: 1
Color:
General Color:
Material 1: 25
Material 1 Desc: OVERBURDEN
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 17.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009315645
Layer: 2
Plug From: 5.0
Plug To: 17.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009315600
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009315644
Layer: 1
Plug From: 0.0
Plug To: 5.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1009315403
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1009315348
Casing No: 0

Comment:
Alt Name:

Construction Record - Casing

Casing ID:	1009315518
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	7.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1009315548
Layer:	1
Slot:	10
Screen Top Depth:	7.0
Screen End Depth:	17.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.299999952316284

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1009315349
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1009315574
Diameter:	6.0
Depth From:	0.0
Depth To:	17.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

WWIS | **43** | ***4 of 7*** | ***ESE/247.8*** | ***345.9 / 1.08*** | ***1550 King Street North lot 36 St. Jacobs ON***

Well ID:	7437678	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	

Final Well Status:	Observation Wells	***Date Received:***	01/11/2023
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	52OYFCYP	***Contractor:***	7282
Tag:	A349856	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	WATERLOO
Elevatn Reliabilty:		***Lot:***	036
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	GCT
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:	Job No. 57775		

Bore Hole Information

Bore Hole ID:	1009315257	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	536160.00
Code OB Desc:		***North83:***	4821497.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/18/2022	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1009315464
Layer:	1
Color:	
General Color:	
Material 1:	25
Material 1 Desc:	OVERBURDEN
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	17.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1009315641
Layer:	2
Plug From:	5.0
Plug To:	17.0
Plug Depth UOM:	ft

Annular Space/Abandonment

Sealing Record

Plug ID: 1009315640
Layer: 1
Plug From: 0.0
Plug To: 5.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009315598
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1009315401
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1009315344
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1009315516
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 7.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1009315546
Layer: 1
Slot: 10
Screen Top Depth: 7.0
Screen End Depth: 17.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.299999952316284

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1009315345
Pump Set At:
Static Level:

Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009315572
Diameter: 6.0
Depth From: 0.0
Depth To: 17.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

WWIS **43** ***5 of 7*** ***ESE/247.8*** ***345.9 / 1.08*** ***1550 King Street North lot 36 St. Jacobs ON***

Well ID: 7437679
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: MYRS6TX4
Tag: A354390
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: WOOLWICH TOWNSHIP
Site Info: Job No. 57775

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 01/11/2023
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7282
Form Version: 9
Owner:
County: WATERLOO
Lot: 036
Concession:
Concession Name: GCT
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009315260
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/18/2022
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:

Elevation:
Elevrc:
Zone: 17
East83: 536177.00
North83: 4821492.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1009315465
Layer: 1
Color:
General Color:
Material 1: 25
Material 1 Desc: OVERBURDEN
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 20.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009315599
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009315643
Layer: 2
Plug From: 8.0
Plug To: 20.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009315642
Layer: 1
Plug From: 0.0
Plug To: 8.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1009315402
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1009315346
Casing No: 0
Comment:
Alt Name:

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

Construction Record - Casing

Casing ID:	1009315517
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	10.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1009315547
Layer:	1
Slot:	10
Screen Top Depth:	10.0
Screen End Depth:	20.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.299999952316284

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1009315347
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1009315573
Diameter:	6.0
Depth From:	0.0
Depth To:	20.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

DB	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site
WWIS	***43***	***6 of 7***	***ESE/247.8***	***345.9 / 1.08***	***1550 King Street North lot 36 St. Jacobs ON***

Well ID:	7437677	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	01/11/2023
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	

Audit No:	RGYQHTNM	**Contractor:**	7282
Tag:	A349844	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	WATERLOO
Elevatn Reliabilty:		**Lot:**	036
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	GCT
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	WOOLWICH TOWNSHIP		
Site Info:	Job No. 57775		

Bore Hole Information

Bore Hole ID:	1009315254	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	536201.00
Code OB Desc:		**North83:**	4821509.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/18/2022	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1009315463
Layer:	1
Color:	
General Color:	
Material 1:	25
Material 1 Desc:	OVERBURDEN
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	17.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1009315597
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1009315638

Layer: 1
Plug From: 0.0
Plug To: 5.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1009315639
Layer: 2
Plug From: 5.0
Plug To: 17.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1009315400
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1009315342
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1009315515
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 7.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1009315545
Layer: 1
Slot: 10
Screen Top Depth: 7.0
Screen End Depth: 17.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.299999952316284

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1009315343
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:

Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009315571
Diameter: 6.0
Depth From: 0.0
Depth To: 17.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Unplottable Summary

Total: 33 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	R.M. OF WATERLOO	HIGHWAY NO. 86	WATERLOO CITY ON	
CA	R.M. OF WATERLOO	NORTHSIDE DR./HWY. #86	WOOLWICH TWP. ON	
CA	R.M. OF WATERLOO	NORTHSIDE DR./MAIN ST./KING ST	WOOLWICH TWP. ON	
CA	REGION	KING ST.	WOOLWICH ON	
CA	TWP.	ARTHUR ST.	WOOLWICH ON	
CA		Arthur Street	Woolwich ON	
CA	Breslau Bypass (New Roadway)	North of existing Regional Road No. 17	Woolwich ON	
CA		Arthur Street	Woolwich ON	
CA	The Regional Municipality of Waterloo	Sawmill Road	Woolwich ON	
CA	R.M. OF WATERLOO-LOT 5,6,9,35 & 36	HIGHWAY NO. 86	WOOLWICH TWP. ON	
CA	BRESLUBE ENTERPRISES	WOOLWICH REGIONAL RD. 17	WOOLWICH TWP. ON	
DTNK	THE CONCRETE STORE	KING ST N	WATERLOO ON	
DTNK	THE CONCRETE STORE	KING ST N	WATERLOO ON	
ECA	The Regional Municipality of Waterloo	Sawmill Road	Woolwich ON	
ECA	The Corporation of the Township of Woolwich	Sawmill Road	Woolwich ON	N3B 2M8
ECA	The Regional Municipality of Waterloo	Northside Dr Hawkesville Road, Sawmill Road	Woolwich ON	N2G 4J3
GEN	Steed and Evans Limited	King St North	St Jacobs ON	N0B2N0

GEN	Steed and Evans Limited	King St North	St Jacobs ON	N0B2N0
HINC		HIGHWAY 86	WOOLWICH ON	
PES	CALVARY UNITED CHURCH	PO BOX 189	ST. JACOBS ON	N0B2N0
PES	BEAVER LUMBER	KING STREET NORTH, R.R. #1	WATERLOO ON	N4S 8T6
PES	CALVARY UNITED CHURCH	PO BOX 189 BOX 189	ST. JACOBS ON	N0B 2N0
PES	BEAVER LUMBER	KING STREET NORTH, R.R. #1	WATERLOO ON	N2J3Z6
PES	CALVARY UNITED CHURCH		ST. JACOBS ON	N0B 2N0
PRT	THE CONCRETE STORE	KING ST N	WATERLOO ON	
PTTW	Laurel Springs Water Corporation	Lot 45, German Company Tract CITY OF WATERLOO	ON	
SCT	Manutech Inc.		St. Jacobs ON	
SCT	CANADA BUILDING MATERIALS CO.	KING ST N	WATERLOO ON	N2J 4G8
SPL	EXPERT PAINTING	ARTHUR ST MOTOR VEHICLE (OPERATING FLUID)	WOOLWICH TWP. ON	
SPL	CONTRACTOR	REG. RD. #86 WEST OF HWY 86 (N.O.S.)	WOOLWICH TOWNSHIP ON	
SPL	UNKNOWN	LOT 46, GERMAN COUNTY TRACT	WOOLWICH TOWNSHIP ON	
SPL	PETRO-CANADA	KING STREET & HWY 86 SERVICE STATION	WATERLOO CITY ON	
SPL	TRANSPORT TRUCK	KING ST RAMP TO N/B HWY 86. TRANSPORT TRUCK (CARGO)	WATERLOO CITY ON	

Unplottable Report

Database: CA

Site: ***R.M. OF WATERLOO***
HIGHWAY NO. 86 WATERLOO CITY ON

Certificate #:	7-0670-90-
Application Year:	90
Issue Date:	5/16/1990
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Database: CA

Site: ***R.M. OF WATERLOO***
NORTHSIDE DR./HWY. #86 WOOLWICH TWP. ON

Certificate #:	7-0422-93-
Application Year:	93
Issue Date:	5/31/1993
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Database: CA

Site: ***R.M. OF WATERLOO***
NORTHSIDE DR./MAIN ST./KING ST WOOLWICH TWP. ON

Certificate #:	7-0746-94-
Application Year:	94
Issue Date:	8/4/1994
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Database: CA

Site: REGION
KING ST. WOOLWICH ON

Certificate #: 3-1041-85-006
Application Year: 85
Issue Date: 9/12/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Database: CA

Site: TWP.
ARTHUR ST. WOOLWICH ON

Certificate #: 3-1193-85-006
Application Year: 85
Issue Date: 10/22/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Database: CA

Site:
Arthur Street Woolwich ON

Certificate #: 0126-5B9KMU
Application Year: 02
Issue Date: 6/26/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: The Regional Municipality of Waterloo
Client Address: 150 Frederick Street
Client City: Kitchener
Client Postal Code: N2G 4J3
Project Description: Approval is sought for the construction of storm sewers on Arthur Street and Listowel Road.
Contaminants:
Emission Control:

Database: CA

Site: Breslau Bypass (New Roadway)
North of existing Regional Road No. 17 Woolwich ON

Certificate #: 7562-5ARQ5Z
Application Year: 02
Issue Date: 6/5/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: The Regional Municipality of Waterloo
Client Address: 150 Frederick Street

Client City: Kitchener
Client Postal Code: N2G 4J3
Project Description: This application is for the construction of storm sewers on Regional Road No. 17, from approximately 680 m south of Menno Street to approximately 1050 m North of Menno Street.
Contaminants:
Emission Control:

Database: CA ***Site:***
Arthur Street Woolwich ON

Certificate #: 5741-5B9L7T
Application Year: 02
Issue Date: 6/19/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: The Corporation of the Township of Woolwich
Client Address: Box 158, 69 Arthur Street South
Client City: Woolwich
Client Postal Code: N3B 2Z6
Project Description: Approval is sought for the construction of watermains on Arthur Street, Southfield Drive and Listowel Road.
Contaminants:
Emission Control:

Database: CA ***Site:*** ***The Regional Municipality of Waterloo***
Sawmill Road Woolwich ON

Certificate #: 1818-6SPPQ4
Application Year: 2006
Issue Date: 8/18/2006
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:

Database: CA ***Site:*** ***R.M. OF WATERLOO-LOT 5,6,9,35 & 36***
HIGHWAY NO. 86 WOOLWICH TWP. ON

Certificate #: 7-0666-90-
Application Year: 90
Issue Date: 5/16/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Database: CA ***Site:*** ***BRESLUBE ENTERPRISES***

Certificate #: 8-2040-86-
Application Year: 86
Issue Date: 5/22/1986
Approval Type: Industrial air
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: INCINERATOR
Contaminants:
Emission Control:

Database: ***DTNK*** ***Site:*** ***THE CONCRETE STORE***
KING ST N WATERLOO ON

Delisted Expired Fuel Safety Facilities

Instance No: 11038187
Status: EXPIRED
Instance ID: 64891
Instance Type: FS Propane Tank
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Propane Tank
Original Source: EXP
Record Date: Up to Mar 2012

Expired Date:
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Database: ***DTNK*** ***Site:*** ***THE CONCRETE STORE***
KING ST N WATERLOO ON

Delisted Expired Fuel Safety Facilities

Instance No: 9657464
Status: EXPIRED
Instance ID: 392139

Expired Date:
Max Hazard Rank:
Facility Location:

Instance Type:	FS Facility	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Propane Refill Cntr - Cylr Fill		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

Database: ***ECA*** ***Site:*** ***The Regional Municipality of Waterloo***
Sawmill Road Woolwich ON

Approval No:	1818-6SPPQ4	***MOE District:***	
Approval Date:	2006-08-18	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	The Regional Municipality of Waterloo		
Address:	Sawmill Road		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/3852-6SNRRW-14.pdf		
PDF Site Location:			

Database: ***ECA*** ***Site:*** ***The Corporation of the Township of Woolwich***
Sawmill Road Woolwich ON N3B 2M8

Approval No:	0939-68MK6H	***MOE District:***	
Approval Date:	2005-01-14	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-Municipal Drinking Water Systems		
Project Type:	Municipal Drinking Water Systems		
Business Name:	The Corporation of the Township of Woolwich		
Address:	Sawmill Road		
Full Address:			
Full PDF Link:			
PDF Site Location:			

Database: ***ECA*** ***Site:*** ***The Regional Municipality of Waterloo***

Approval No:	6298-BRXSAY	***MOE District:***	
Approval Date:	2020-08-14	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Regional Municipality of Waterloo
Address: Northside Dr Hawkesville Road, Sawmill Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9537-BR9S26-14.pdf
PDF Site Location:

Database: ***GEN*** ***Site:*** ***Steed and Evans Limited***
King St North St Jacobs ON N0B2N0

Generator No: ON2854874
SIC Code:
SIC Description:
Approval Years: As of Dec 2017
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

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Database: ***GEN*** ***Site:*** ***Steed and Evans Limited***
King St North St Jacobs ON N0B2N0

Generator No: ON2854874
SIC Code: 237110
SIC Description: WATER AND SEWER LINE AND RELATED STRUCTURES CONSTRUCTION
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Database: ***HINC*** ***Site:***
HIGHWAY 86 WOOLWICH ON

External File Num: FS INC 0707-03397

Fuel Occurrence Type:	Fire
Date of Occurrence:	3/2/2008
Fuel Type Involved:	Propane
Status Desc:	Completed - No Action Required
Job Type Desc:	Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:	Private Dwelling
Service Interruptions:	No
Property Damage:	No
Fuel Life Cycle Stage:	Utilization
Root Cause:	
Reported Details:	Westmount Rose Trailer Park
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Emergency Services (Fire, Police,etc)
County Name:	Waterloo
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

Database: ***PES*** ***Site:*** ***CALVARY UNITED CHURCH***
PO BOX 189 ST. JACOBS ON N0B2N0

Detail Licence No:		***Operator Box:***	189
Licence No:	10857	***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:	Legacy Licenses (Excluding TS)	***Oper Area Code:***	519
Licence Type:	Retail Vendor Class 03	***Oper Phone No:***	6642311
Licence Type Code:	21	***Operator Ext:***	
Licence Class:	03	***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Latitude:		***Operator Region:***	
Longitude:		***Operator District:***	
Lot:		***Operator County:***	
Concession:		***Op Municipality:***	
Region:		***Post Office Box:***	
District:		***MOE District:***	
County:		***SWP Area Name:***	
Trade Name:			
PDF URL:			

Database: ***PES*** ***Site:*** ***BEAVER LUMBER***
KING STREET NORTH, R.R. #1 WATERLOO ON N4S 8T6

Detail Licence No:		***Operator Box:***	
Licence No:		***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:		***Oper Area Code:***	
Licence Type:	Vendor	***Oper Phone No:***	
Licence Type Code:		***Operator Ext:***	
Licence Class:		***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Latitude:		***Operator Region:***	
Longitude:		***Operator District:***	
Lot:		***Operator County:***	
Concession:		***Op Municipality:***	
Region:		***Post Office Box:***	
District:		***MOE District:***	
County:		***SWP Area Name:***	
Trade Name:			
PDF URL:			

Database: PES

Site: CALVARY UNITED CHURCH
PO BOX 189 BOX 189 ST. JACOBS ON N0B 2N0

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Limited Vendor	**Oper Phone No:**	
Licence Type Code:	23	**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

Database: PES

Site: BEAVER LUMBER
KING STREET NORTH, R.R. #1 WATERLOO ON N2J3Z6

Detail Licence No:		**Operator Box:**	68
Licence No:	10087	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	519
Licence Type:	Retail Vendor Class 03	**Oper Phone No:**	8842000
Licence Type Code:	21	**Operator Ext:**	
Licence Class:	03	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

Database: PES

Site: CALVARY UNITED CHURCH
ST. JACOBS ON N0B 2N0

Detail Licence No:	23-01-10857-0	**Operator Box:**	189
Licence No:	10857	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Limited Vendor	**Oper Phone No:**	
Licence Type Code:	23	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:	0	**Oper Concession:**	
Latitude:		**Operator Region:**	2
Longitude:		**Operator District:**	2
Lot:		**Operator County:**	65
Concession:		**Op Municipality:**	

Region:	2	***Post Office Box:***	
District:	2	***MOE District:***	
County:	65	***SWP Area Name:***	
Trade Name:			
PDF URL:			

Database: ***PRT*** ***Site:*** ***THE CONCRETE STORE***
KING ST N WATERLOO ON

Location ID:	16506
Type:	retail
Expiry Date:	1991-05-31
Capacity (L):	2000
Licence #:	0034440001

Database: ***PTTW*** ***Site:*** ***Laurel Springs Water Corporation***
Lot 45, German Company Tract CITY OF WATERLOO ON

EBR Registry No:	IA00E0031	***Decision Posted:***	
Ministry Ref No:	23007983	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	February 20, 2001	***Act 2:***	
Proposal Date:	January 10, 2000	***Site Location Map:***	
Year:	2000		
Instrument Type:	(OWRA s. 34) - Permit to Take Water		
Off Instrument Name:			
Posted By:			
Company Name:	Laurel Springs Water Corporation		
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:	139 Northfield Drive, Waterloo Ontario, N2L 5A6		
Comment Period:			
URL:			
Summary:			

Site Location Details:

Lot 45, German Company Tract CITY OF WATERLOO

Database: ***SCT*** ***Site:*** ***Manutech Inc.***
St. Jacobs ON

Established:	1986
Plant Size (ft²):	
Employment:	3

--Details--

Description:	Machine Shops
SIC/NAICS Code:	332710
Description:	Other Metalworking Machinery Manufacturing
SIC/NAICS Code:	333519

Database: ***SCT*** ***Site:*** ***CANADA BUILDING MATERIALS CO.***
KING ST N WATERLOO ON N2J 4G8

Established: 1903
Plant Size (ft²): 0
Employment: 15

--Details--
Description: BRICK AND STRUCTURAL CLAY TILE
SIC/NAICS Code: 3251

Description: READY-MIXED CONCRETE
SIC/NAICS Code: 3273

Database: ***SPL*** ***Site:*** ***EXPERT PAINTING***
ARTHUR ST MOTOR VEHICLE (OPERATING FLUID) WOOLWICH TWP. ON

Ref No: 38972
Year:
Incident Dt: 8/9/1990
Dt MOE Arvl on Scn:
MOE Reported Dt: 8/9/1990
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: WOOLWICH TWP.
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: OTHER CONTAINER LEAK
Incident Preceding Spill:
Environment Impact: NOT ANTICIPATED
Health Env Consequence:
Nature of Impact:
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: OTHER
Incident Summary: EXPERT PAINTING - 25 LTR PAINT TO ROAD, CLEANED UPBY REGION.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

Municipality No: 25604
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved: F.D., REGION

Database: SPL **Site:** ***CONTRACTOR***
REG. RD. #86 WEST OF HWY 86 (N.O.S.) WOOLWICH TOWNSHIP ON

Ref No:	132536	***Municipality No:***	25604
Year:		***Nature of Damage:***	
Incident Dt:	9/30/1996	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	9/30/1996	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	TWP OF WOOLWICH
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	WOOLWICH TOWNSHIP		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	CONTAINER OVERFLOW		
Incident Preceding Spill:			
Environment Impact:	POSSIBLE		
Health Env Consequence:			
Nature of Impact:	Water course or lake		
Contaminant Qty:			
Contaminant Qty 1:			
Contaminant Unit:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	LAND / WATER		
Incident Reason:	ERROR		
Incident Summary:	RAYMAR CONSTRUCTION-50L DIESEL FUEL TO NEW STORM POND THEN TO RIVER.		
Activity Preceding Spill:			
Property 2nd Watershed:			
Property Tertiary Watershed:			
Sector Type:			
SAC Action Class:			
Call Report Locatn Geodata:			
Time Reported:			
System Facility Address:			
Client Name:			

Database: SPL **Site:** ***UNKNOWN***
LOT 46, GERMAN COUNTY TRACT WOOLWICH TOWNSHIP ON

Ref No:	84528	***Municipality No:***	25604
Year:		***Nature of Damage:***	
Incident Dt:	4/24/1993	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	4/24/1993	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	
Site No:			
MOE Response:			
Site County/District:			

Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: WOOLWICH TOWNSHIP
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: UNKNOWN
Incident Preceding Spill:
Environment Impact: CONFIRMED
Health Env Consequence:
Nature of Impact: Water course or lake
Contaminant Qty:
Contaminant Qty 1:
Contaminant Unit:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: WATER
Incident Reason: UNKNOWN
Incident Summary: PRIVATE RESIDENT-OILY MATERIAL FROM 12" DRAIN TILE.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

Database: ***SPL*** ***Site:*** ***PETRO-CANADA***
KING STREET & HWY 86 SERVICE STATION WATERLOO CITY ON

Ref No: 82896
Year:
Incident Dt: 3/19/1993
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/19/1993
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: WATERLOO CITY
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Municipality No: 25103
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Incident Cause:	UNDERGROUND TANK LEAK
Incident Preceding Spill:	
Environment Impact:	NOT ANTICIPATED
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	
Contaminant Qty 1:	
Contaminant Unit:	
Client Type:	
Source Type:	
Contaminant Code:	
Contaminant Name:	
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	LAND
Incident Reason:	ICE/FROST DAMAGE
Incident Summary:	PETRO-CANADA: 15 L GASOLINE TO ASPHALT AT SERVICE STATION.
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	
SAC Action Class:	
Call Report Locatn Geodata:	
Time Reported:	
System Facility Address:	
Client Name:	

Database: ***SPL*** ***Site:*** ***TRANSPORT TRUCK***
KING ST RAMP TO N/B HWY 86. TRANSPORT TRUCK (CARGO) WATERLOO CITY ON

Ref No:	146994	***Municipality No:***	25103
Year:		***Nature of Damage:***	
Incident Dt:	9/23/1997	***Discharger Report:***	
Dt MOE Arvl on Scn:		***Material Group:***	
MOE Reported Dt:	9/24/1997	***Impact to Health:***	
Dt Document Closed:		***Agency Involved:***	
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	WATERLOO CITY		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	OTHER CONTAINER LEAK		
Incident Preceding Spill:			
Environment Impact:	POSSIBLE		
Health Env Consequence:			
Nature of Impact:	Multi Media Pollution		
Contaminant Qty:			
Contaminant Qty 1:			
Contaminant Unit:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			

Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: EQUIPMENT FAILURE
Incident Summary: MR. GREASE-UNK VOL OF VEG-ETABLE GREASE/OIL TO RD & CARS.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:
Time Reported:
System Facility Address:
Client Name:

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

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

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-Apr 2024

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

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

Government Publication Date: 1999-Apr 30, 2024

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

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

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

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

Government Publication Date: Jan 2004-Dec 2022

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Apr 30, 2024

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -May 2024

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-Jun 2024

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994 - Sep 30, 2024

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database (ODHD) is offered by the Province of Ontario's Ministry of Mines. The dataset contains information for over 164,000 percussion, overburden, sonic and diamond-drill holes. The presence of assay results with cutoff values for gold, silver, copper, zinc, lead, nickel and platinum group elements is noted. Drill hole data are compiled from assessment files that have been submitted to the ministry in accordance with the Ontario Mining Act (OMA). Source assessment file numbers are captured for cross reference with the Ontario Assessment File Database (OAFD). 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. 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 2024

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Oct 2023

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Sep 30, 2024

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Sep 30, 2024

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Sep 30, 2024

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 31, 2024

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

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

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2023

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Federal Convictions: Federal FCON

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

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

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

Government Publication Date: Jun 2000-Sep 2024

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: Oct 31, 2021

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

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-Oct 31, 2022

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 2022

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

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

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: 31 Oct, 2023

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Mar 31, 2022

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 2024

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, 2022

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-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

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

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

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

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

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

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

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

Government Publication Date: 1988-2008*

National Pollutant Release Inventory 1993-2020: Federal NPR2

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Sep 2020

National Pollutant Release Inventory - Historic: 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. This data holds historic records; current records are found in NPR2.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

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

Government Publication Date: 1988-May 31, 2024

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the Ministry of Natural Resources (MNR) handed over to the Ontario Oil, Gas and Salt Resources (OGSR) 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 includes well owner/operator, location, permit issue date, and well cap date, license number, 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 provided for each well record.

Government Publication Date: 1800-Aug 2024

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 Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Sep 30, 2024

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011-Sep 30, 2024

Ontario PFAS Spills: Provincial PFAS

This specific list of spills includes those incidents where one or more of the listed contaminants are identified in the PFAS Structure List and/or PFAS Chemicals Without Explicit Structure List made available by the United States Environmental Protection Agency (US EPA), is originally sourced from the Ministry of the Environment, Conservation and Parks spills related data. 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-Mar 2024; May 2024

NPRI Reporters - PFAS Substances: Federal PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Sep 2020

Potential PFAS Handlers from NPRI: Federal PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Sep 2020

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2021

Potential PFAS Handlers from EASR: Provincial PPHA

The Ontario Environmental Activity and Sector Registry (EASR), described in Ontario Regulation 245/11, allows businesses with less complex operations - and hence not requiring an Environmental Compliance Approval - to register their activities with the Ontario Ministry of the Environment, Conservation and Parks (MECP). This list of potential PFAS handlers includes those EASR facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used.

Government Publication Date: Jun 30, 2024

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 PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Sep 30, 2024

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: 1986-1990, 1992-2021

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). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-Oct 2024

Retail Fuel Storage Tanks: Private RST

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

Government Publication Date: 1999-Apr 30, 2024

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

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

Government Publication Date: 1988-Jun 2024

Wastewater Discharger Registration Database: Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of 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.

Government Publication Date: 1990-Dec 31, 2021

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 - Apr 2024

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011 - Sep 30, 2024

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

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

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Dec 31 2023

Definitions

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

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

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

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix G

Region of Waterloo Environmental Records Search

Region of Waterloo

ENGINEERING AND
ENVIRONMENTAL SERVICES
Water and Wastewater Services
150 Frederick Street
Kitchener Ontario N2G 4J3 Canada
Telephone: 519-575-4400
TTY: 519-575-4608
regionofwaterloo.ca

Date: December 13th, 2024

Via EMAIL: natalie.veras@ghd.com

Response to Request for Environmental Records Search
ERS Request # WASERS-2024-12-02-002 - 52 Hawkesville St. Woolwich

In response to your request, we have searched for records for the noted address in the Source Water Protection Urban Threats Inventory Database (TID) (Note 1), and in the Environmental Enforcement & Laboratory Services' Environmental Incident (spill to the environment) Reports.

Source Water Protection (See Notes 1 & 2)

The following TID records (of "moderate", "high", or "known" threat-rank) were located adjacent to the subject property:

44 Hawkesville St, Woolwich

- A record with a Moderate threat rank based on information from an inventory of cemeteries use for the area. The Threat Rank is assigned due to the nature of the business.

1637 King St N, Woolwich

- A record with a Moderate threat rank based on information from a 2003 Business Directory for the property. The indicated address was listed as Horsty's Welding LTD., under the industry type Other Personal and Household Goods Repair and Maintenance.

1645 King St N, Woolwich

- A record with a Moderate threat rank based on information from a 2003 Business Directory for the property. The indicated address was listed as Jano's, Rudy Painting & Wallpapering, under the industry type Painting and Wall Covering Contractors.

The following information may be relevant to your study. The property is not located within a designated Source Water Protection Area (Regional Official Plan 2015). Note that Regional staff consider groundwater throughout the Regional Municipality of Waterloo to be subject to potable water clean-up standards. Further information can be found on the Region's Water Services website in a document titled "Potable Groundwater Criteria Use in the Region of Waterloo".

Environmental Incident Reports (See Note 3)

The Region of Waterloo, Environmental Enforcement and Laboratory Services, does not have any records on file pertaining to the site in question.

Closing

You may wish to contact other agencies, such as the Ministry of the Environment or the Township of Woolwich for additional information that is not in our files.

Please direct any questions to:

Heather McLeod, Ph.D., P.Geo.
Senior Hydrogeologist, Water & Wastewater Services - Hydrogeology & Water Programs
hmcleod@regionofwaterloo.ca

TERMS OF USE
These data and information are provided with the understanding that they are not guaranteed to be correct or complete. Conclusions drawn from or actions undertaken on the basis of such data and information are the sole responsibility of the user.

NOTE 1:

The TID database is used for technical assessment purposes for Source Water Protection studies, and is also referenced by the Regional Implementation Guideline for the Review of Development Applications On or Adjacent to Known and Potentially Contaminated Sites. TID information was compiled from a variety of sources and is not intended to be a complete listing of environmental information for a site. TID threat rankings are intended to provide a qualitative measure of the potential for significant contamination of soil or water at a site (i.e. high, moderate, or low potential for contamination to affect municipal water supplies). Important information on TID Threat Ranks and data limitations is presented in the document "Regional Municipality of Waterloo- Urban Threats Inventory Database (TID)-Final Report" dated 2006 that is available on the Region of Waterloo website.

NOTE 2:

The Regional Official Plan designates Wellhead Protection Areas around each municipal drinking-water supply well. Wellhead Protection Areas are the total area of land that contributes water to a municipal drinking-water supply well. Within each Wellhead Protection Area, one or more Wellhead Protection Sensitivity Areas (WPSA) are delineated. The purpose of these designations is to prevent land uses involving hazardous chemicals and/or substances, disease causing organisms and land uses that increase the vulnerability of groundwater from becoming water quantity and/or quality risks to municipal drinking-water supply wells. Wellhead Protection Sensitivity Areas (WPSA) are classified from 1 to 8, with 1 being the areas closest to municipal wells and most vulnerable. Further information on the ROP and protection areas, including online mapping, is available on the Region's website. WHPA mapping is available through the Region's website: www.regionofwaterloo.ca select the "Discovering the Region" tab across the top and then select "map" from the options, then select the "GIS Locator" link underneath the "Interactive Maps" heading—make visible and activate the "Well head Protection Area ROP10" layer (VIEW\Layer List).

NOTE 3:

EELS is responsible for receiving reports of spills to the natural environment which may impact the storm of sanitary sewers; determining the adequacy of reported spills response activities, facilitating or triggering a response, and on-site assessment, as required. The EIR database, which spans from 2003 to present, is used to document EELS' response to these spills. EELS makes every effort to provide and maintain accurate, complete, useable, and timely information therein. These data and information are provided with the understanding that they are not guaranteed to be correct or complete.

TERMS OF USE

These data and information are provided with the understanding that they are not guaranteed to be correct or complete. Conclusions drawn from or actions undertaken on the basis of such data and information are the sole responsibility of the user.

Appendix H

Aerial Photographs

HISTORICAL AERIALS

Project Property: 52 Hawkesville Road, 110
Northside Drive, 118 Northside Drive, Part of Lot 37 German Compan
52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part
St. Jacobs ON

Project No: 12637434-DEL.3

Requested By: GHD Limited

Order No: 24110800524

Date Completed: November 13,2024

Aerial Maps included in this report are produced by the sources listed above and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property. ERIS provides no warranty of accuracy or liability. The information contained in this report has been produced using aerial photos listed in above sources by ERIS Information Inc. (in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS'. The maps contained in this report do not purport to be and do not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

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

Date	Source	Scale	Comments
2022	Maxar Technologies	10,000	
2015	Government of Ontario	10,000	
2006	Government of Ontario	10,000	
1990	National Air Photo Library	10,000	
1980	National Air Photo Library	10,000	
1971	National Air Photo Library	10,000	
1964	National Air Photo Library	10,000	
1955	Ontario Department of Lands and Forest	10,000	
1940	Decade Coverage Unavailable	10,000	
1930	National Air Photo Library	10,000	
1920	Decade Coverage Unavailable	10,000	



Year: 2022
Source: MAXAR
Scale: 10,000
Comment:

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract, St. Jacobs, ON
Approx Center: -80.5578824,43.54869766

Order No: 24110800524

ERIS



Year: 2015
Source: GON
Scale: 10,000
Comment:

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract, St. Jacobs, ON
Approx Center: -80.5578824,43.54869766

Order No: 24110800524

ERIS

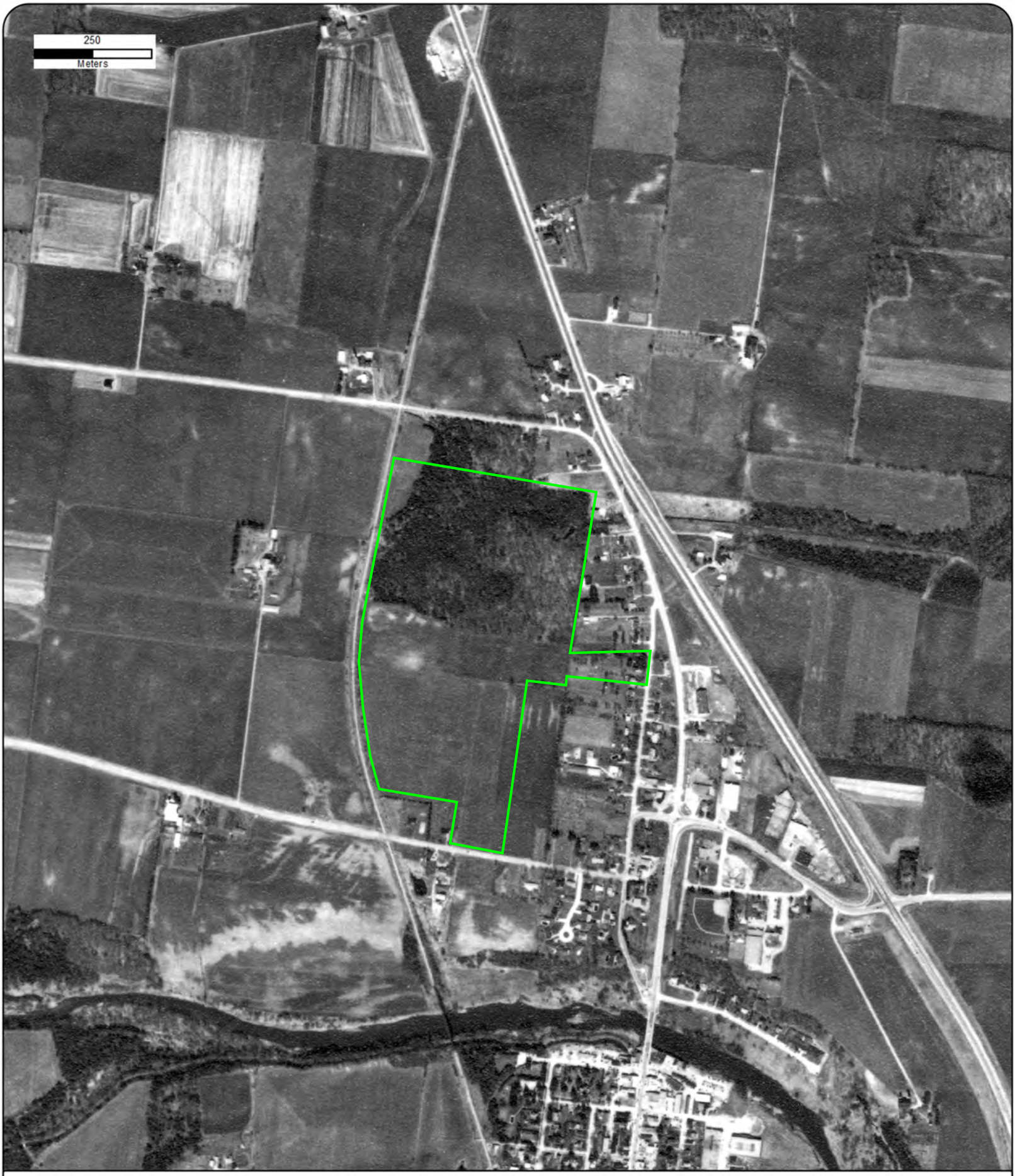


Year: 2006
Source: GON
Scale: 10,000
Comment:

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract, St. Jacobs, ON
Approx Center: -80.5578824,43.54869766

Order No: 24110800524

ERIS



Year: 1990
Source: NAPL
Scale: 10,000
Comment:

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract, St. Jacobs, ON
Approx Center: -80.5578824,43.54869766

Order No: 24110800524

ERIS

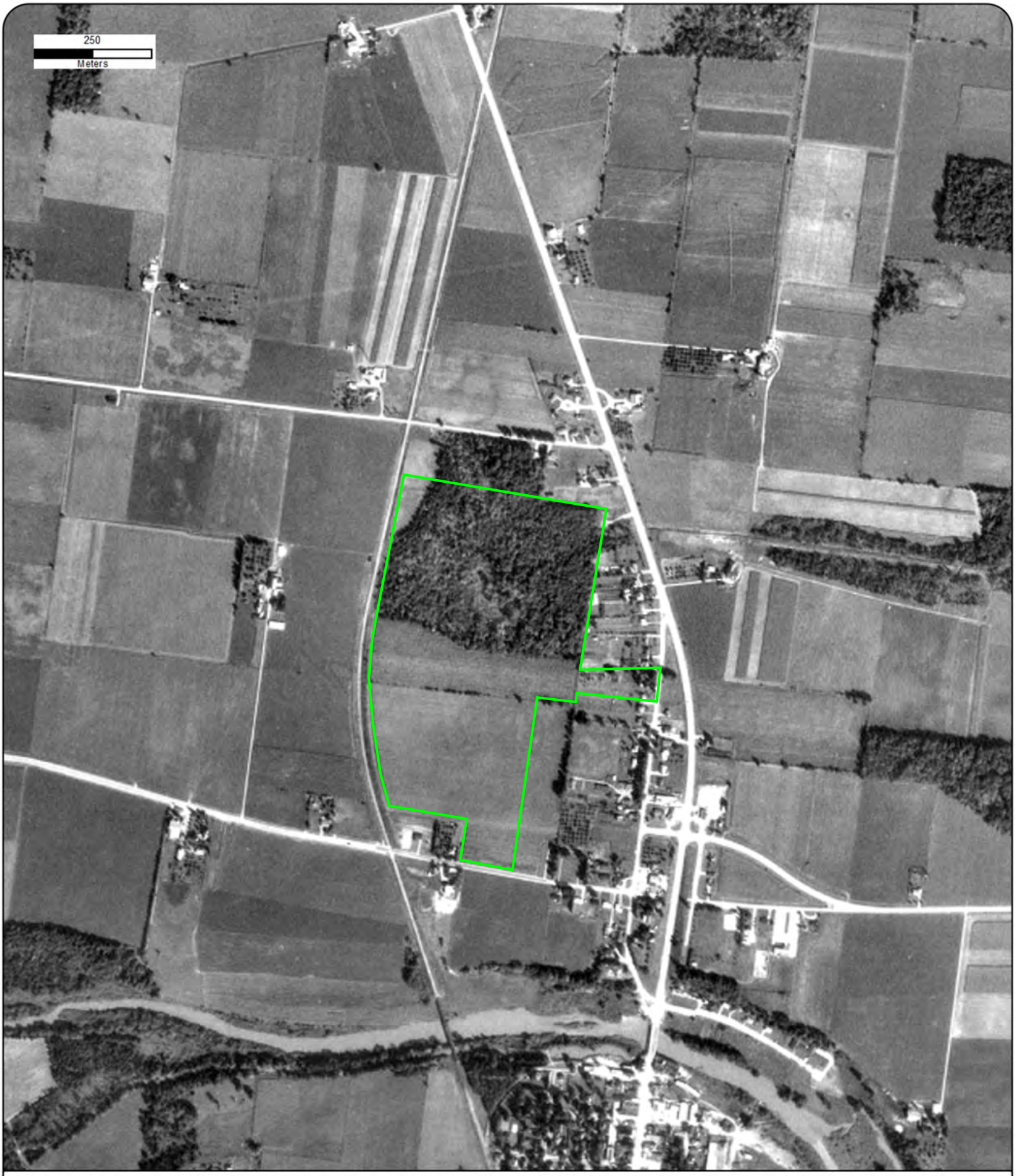


Year: 1980
Source: NAPL
Scale: 10,000
Comment:

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract, St. Jacobs, ON
Approx Center: -80.5578824,43.54869766

Order No: 24110800524

ERIS



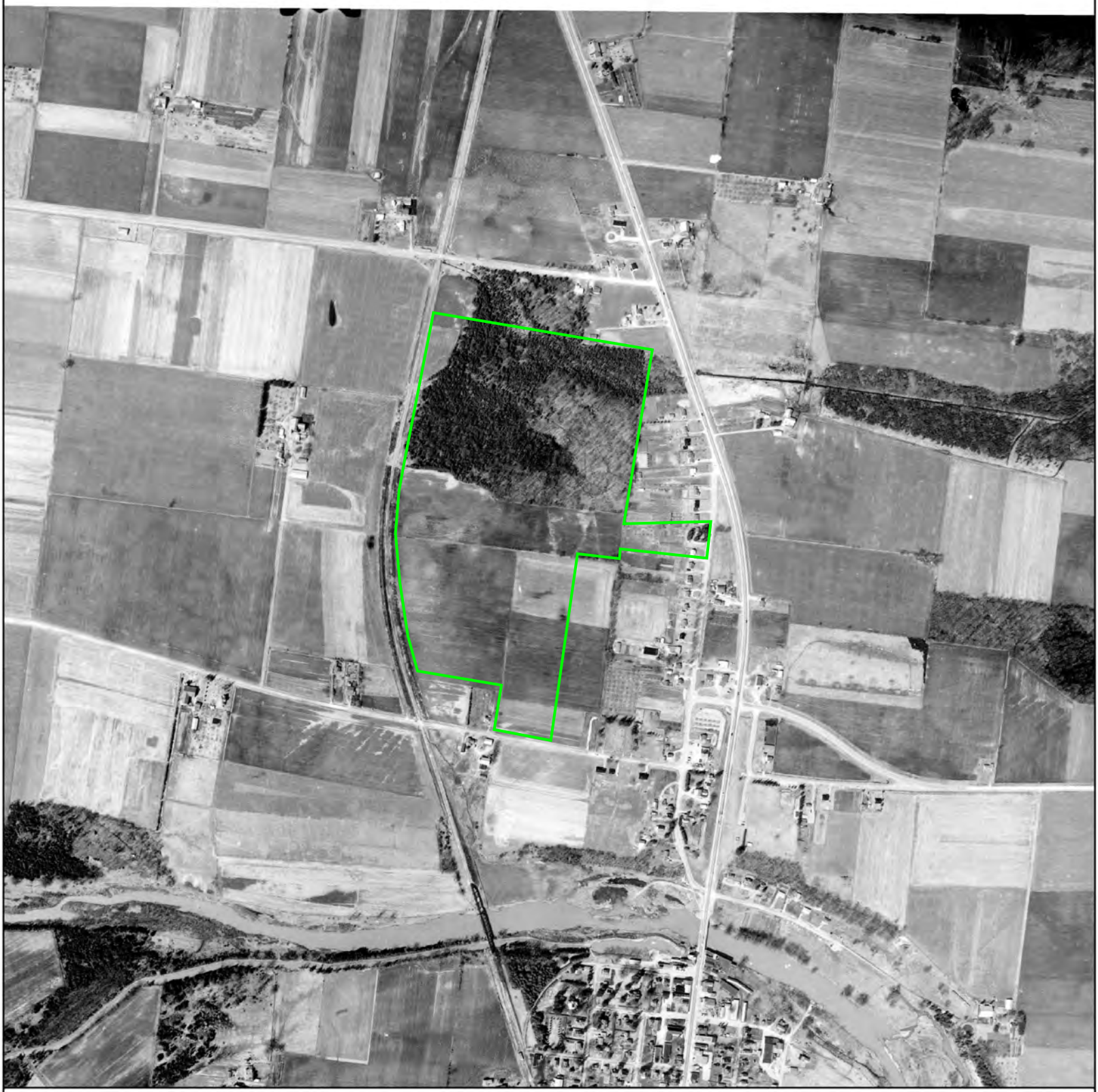
Year: 1971
Source: NAPL
Scale: 10,000
Comment:

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract, St. Jacobs, ON
Approx Center: -80.5578824,43.54869766

Order No: 24110800524

ERIS

250
Meters



Year: 1964
Source: NAPL
Scale: 10,000
Comment:

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract, St. Jacobs, ON
Approx Center: -80.5578824,43.54869766

Order No: 24110800524

ERIS



Year: 1955
Source: L&F
Scale: 10,000
Comment:

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract, St. Jacobs, ON
Approx Center: -80.5578824,43.54869766

Order No: 24110800524

ERIS



Year: 1930
Source: NAPL
Scale: 10,000
Comment:

Address: 52 Hawkesville Road, 110 Northside Drive, 118 Northside Drive, Part of Lot 37 German Company Tract, St. Jacobs, ON
Approx Center: -80.5578824,43.54869766

Order No: 24110800524

ERIS

Appendix I

Site Photographs

Site Photographs



Photo 1 *View of the residential dwelling located at the 118 Northside Drive property, located on the eastern portion of the Site, facing west.*

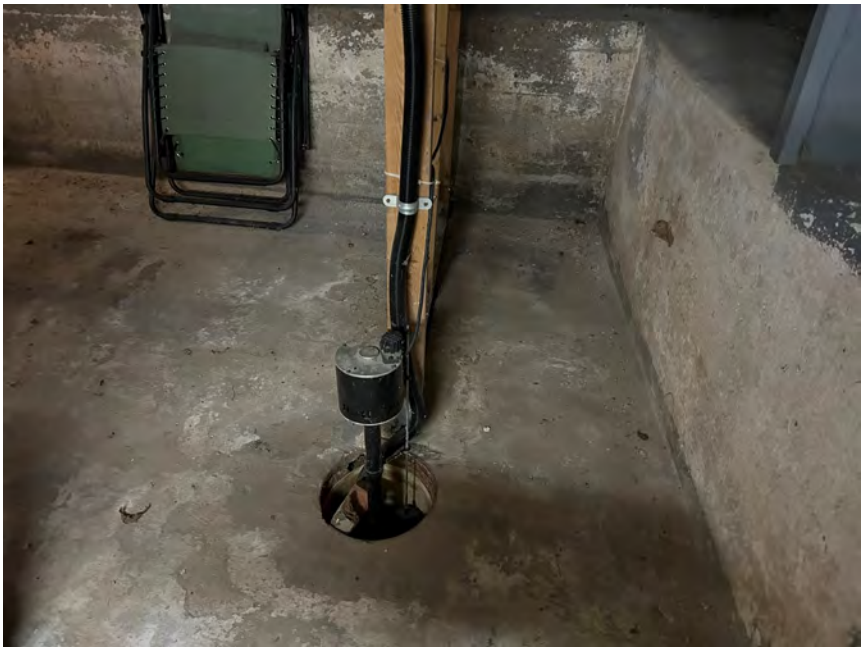


Photo 2 *View of the sump pump located in the basement of the residential dwelling located at 118 Northside Drive.*

Site Photographs



Photo 3 *View of the natural gas furnace located in the basement of the residential dwelling located at 118 Northside Drive.*



Photo 4 *View of the western portion of 118 Northside Drive, looking west.*

Site Photographs



Photo 5 *View of the shed located on the western portion of 118 Northside Drive, looking north.*



Photo 6 *View of the shed located on the western portion of 118 Northside Drive, looking west.*

Site Photographs



Photo 7 *View of the residential dwelling located at the 110 Northside Drive property, located on the eastern portion of the Site, facing west.*



Photo 8 *View of the natural gas furnace located in the basement of the residential dwelling located at 110 Northside Drive.*

Site Photographs



Photo 9 *View of the interior of the garage in the residential dwelling located at 110 Northside Drive.*



Photo 10 *View of the southern portion of 110 Northside Drive and the property adjacent to the south, looking east.*

Site Photographs



Photo 11 ***General view of the 52 Hawkesville Road property, located on the southwestern portion of the Site, facing southeast.***



Photo 12 ***General view of the southern portion of the Site 52 Hawkesville Road property, facing northeast.***

Site Photographs



Photo 13 General view of the property located adjacent to the north of the Site, looking northeast.



Photo 14 View of the property located adjacent to the north of the 118 Northside Drive property, looking north.

Site Photographs



Photo 15 *View of Northside Drive and the properties located further east of the Site, looking east.*



Photo 16 *View of the property located adjacent to the east of the 52 Hawkesville Road property located at 48 Hawkesville Road, looking north.*

Site Photographs



Photo 17 *View of the property located adjacent to the east of the 52 Hawkesville Road property located at 48 Hawkesville Road, looking south.*



Photo 18 *View of the property located south of the Site, south of Hawkesville Road, located at 55 Hawkesville Road.*

Site Photographs



Photo 19 View of the property located south of the Site, south of Hawkesville Road, located at 57 Hawkesville Road.



Photo 20 View of the property located southwest of the Site, located at 56 Hawkesville Road, looking north.

Site Photographs



Photo 21 View of the railway located adjacent to the west of the Site, looking north.



Photo 22 View of the property located approximately 90 metres east of the Site at 80 Northside Drive, looking east.

