

# 190-216 ARKELL ROAD GUELPH, ON

## Final

## **Phase I Environmental Site Assessment**

#### **Project Location:**

190-216 Arkell Road Guelph, ON

#### **Prepared For:**

Crescent Homes Ltd. 15 Curzon Crescent Guelph, ON N1K 0B3

#### Prepared By:

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#### **EXECUTIVE SUMMARY**

MTE Consultants Inc. (MTE) was retained by Crescent Homes Ltd. (the "Client") to conduct a Phase I Environmental Site Assessment (ESA) for four contiguous properties located at 190, 202, 210 and 216 Arkell Road, Guelph, Ontario (hereinafter referred to as the "Site"). At the time of assessment, the Site was in use for residential purposes and was located in a primarily residential area within the municipality of Guelph.

The properties at 190, 210, and 216 Arkell Road were purchased by Client, while the property at 202 Arkell Road was to be purchased at a future date. The properties at 190, 210, and 216 Arkell Road had tenants living in them, with tenants at 210 and 216 Arkell Road being the former owners of the property. The tenant at 190 Arkell Road was not the former property owner. At the time of the site visit, 202 Arkell Road was inhabited by property owners.

The Site was approximately 2.6 hectares (6.3 acres) in size and was located west of the Arkell Road and Summerfield Drive intersection in Guelph, Ontario. At the time of assessment, the Site was composed of four residential properties with municipal addresses 190, 202, 210 and 216 Arkell Road.

In addition to residential buildings, additional sheds/garages were located across the Site. Surrounding the residences and sheds were backyards consisting of grass and/or landscaping. A wooded area and wetland were located along the west property boundary of the Site. A portion of the wetland was identified by the Ministry of Natural Resources as Provincially Significant.

MTE understands that the Site is to be redeveloped into higher density residential housing and/or a subdivision.

The properties surrounding the Site included residential uses to the north, east, and south, and a wetland/forested area to the west and further south. Beyond the residential area to the north was agricultural land. A large residential property was located to the west and northwest, followed by a former golf course.

MTE understands the Site has been used for residential purposes since approximately the early 1960s when the first residences were developed on the Site at 190, 202 and 216 Arkell Road. The residential dwelling at 210 Arkell Road was developed in 1977. A newer residence was erected at 190 Arkell Road in the 1990s. Prior to the 1960s, the area was primarily vacant or agricultural land.

During the Site visit, MTE observed additional Site operations related to "hobby" or recreational use, including the following:

- A woodshop located at 216 Arkell Road within the shed;
- A personal vehicle maintenance shed located at 210 Arkell Road, as confirmed by the tenant/former owner; and
- Former poultry areas at 210 Arkell Road.

This Phase I ESA was conducted in general accordance with the Canadian Standards Association (CSA) Standard Z768-01. This report has been completed for due diligence purposes in advance of a potential real estate transaction. MTE understands that a Record of Site Condition (RSC) has not been requested at this time.

Based on the information compiled through records review, interviews and Site visits, no issues representing potential or actual/known environmental contamination associated with surrounding properties were identified. However, the Phase I ESA revealed the following issues representing potential or actual/known environmental contamination associated with the Site:

- Soil sample results identified exceedances of the applicable Table 1 Standards for zinc at BH5 and BH6, however these exceedances are inferred to be representative of background zinc concentrations in soil;
- Importation of fill material of unknown quality for backfill and potential building debris associated with the demolition of the former residential dwelling at 190 Arkell Road:
- Possible impacts from releases from historic use of furnace oil for residential heating purposes at 190, 202 and 216 Arkell Road; and
- Importation of fill material of unknown quality stockpiled at 190 Arkell Road.

Further to the above, MTE also notes the following:

- A locally significant natural area zoned as a Provincially Significant Wetland by the MNRF is located on the west end of the Site and further south;
- The presence of domestic wells on Site; and
- The distance of the Site to the Burke municipal well (approximately 70m) and the presence of the Site in WHPA-A.

Based on the findings of this Phase I ESA, actual and potential environmental concerns have been identified at the Site. In order to assess potential environmental concerns associated with soil and groundwater quality as they may impact future development, intrusive investigation to address the aforementioned issues is recommended. In particular, a Phase II ESA is recommended to investigate the quality of fill material at 190 Arkell Road associated with the current stockpiles and the demolition of the former residential dwelling, as well as to investigate the presence of releases from potential historic use of fuel oil for heating purposes at all residential dwellings.

Alternatively, these issues could be addressed through investigations during the first stages of redevelopment of the Site, considering it is understood that redevelopment will including the demolition of all buildings and significant ground surface disturbance. However, combining the investigation of the aforementioned issues with the commencement of Site redevelopment may result in undesirable impacts to the redevelopment schedule and/or budget, should the management of any significant amounts of contaminated soil and/or groundwater be required.

Notwithstanding the above, MTE also recommends the following:

- In addition, the on-Site monitoring wells should be operated and maintained in accordance with Ontario Regulation 903 or properly decommissioned as per the Regulation should they no longer be required;
- Solid waste debris (i.e. scrap metal and waste wood piles) should be collected and removed in accordance with regulatory requirements such as Ontario Regulation 347;
- Additional sampling and characterization of soils at the Site may be required to determine any limitations on the potential reuse of excess soil generated during future redevelopment of the Site (if excess soil generation is anticipated); and,
- A pre-demolition designated substances survey should be conducted prior to redevelopment of the Site and any designated substance should be managed in accordance with regulatory requirements during demolition.

This report does not assess geotechnical issues, compliance with municipal by-laws/permits, or features of the natural environment.

#### 1.0 INTRODUCTION

#### 1.1 Site Description

MTE Consultants Inc. (MTE) was retained by Crescent Homes Ltd. (the "Client") to conduct a Phase I Environmental Site Assessment (ESA) for adjoining residential properties at 190, 202, 210 and 216 Arkell Road in Guelph, Ontario (hereinafter referred to as the "Site"). The Site is located between Gordon Street and Victoria Road in a mainly residential area in south Guelph. The Site location is shown on **Figure 1**. For the purposes of this report, Arkell Road is assumed to run in a north-south direction.

The Site is approximately 2.6 hectares (6.3 acres) in size. The properties each contain a single family dwelling with individual septic systems and various detached sheds or garages. The properties at 190, 210, and 216 Arkell Road were owned by Client, with tenants living in them. The tenants at 210 Arkell Road were former inhabitants (i.e., the children of the former property owner), and the tenant at 216 Arkell Road was the former property owner of 32 years. The tenant at 190 Arkell Road was not the former property owner. The property at 202 Arkell Road was to be purchased by the Client at a future date, and had the property owners living within the residence.

A wooded area and wetland were located along the west property boundary of the Site. A portion of the wetland was identified by the Ministry of Natural Resources as Provincially Significant. Other properties surrounding the Site are residential. The Site and surrounding properties are shown on **Figure 2.** 

#### 1.2 Purpose

Authorization to proceed with the project was received from Mr. Nitin Jain on behalf of Crescent Homes.

The assignment was completed by MTE under reference number 42063-104 for Crescent Homes. This Phase I ESA was completed for due diligence purposes in advance of a redevelopment and planning approval by the City of Guelph. MTE understands that a Record of Site Condition (RSC) is not required and has not been requested at this time.

#### 1.3 Scope of Work

The Phase I ESA was completed in general accordance with the Canadian Standards Association (CSA) document Z768-01 and included the following tasks:

 Review of environmental information related to the Site and the surrounding properties, including published data, correspondence and online records as available from the Ontario Ministry of Environment, Conservation, and Parks (MECP), Ministry of Natural Resources and Forestry (MNRF), Grand River Conservation Authority (GRCA), Technical Standards and Safety Authority (TSSA) and the City of Guelph;

- Review of physical setting information including aerial photographs, topographic maps and geologic reference materials;
- Review of Environmental Risk Information Services Ltd. (ERIS) databases report for the Site;
- Site inspection and general observation of surrounding properties from publicly accessible areas:
- Assessment of all information to identify potential environmental concerns on the Site and surrounding properties;
- Photographic log of the Site; and
- Preparation of this report.

This report does not assess geotechnical issues or compliance with municipal by-laws/permits.

#### 1.3 Methodology

The "Study Area" included properties located wholly or partially within 250 m from the boundaries of the Site, as shown on **Figure 2**. MTE conducted research and collected available information that was reasonably accessible for the Site and surrounding properties, through the following methods:

- Written correspondence with regulatory and government agencies;
- Research and review of publically available information through on-line databases;
- Review of an EcoLog ERIS database report for the Site;
- Interview with persons knowledgeable about the Site;
- Inspection of the Site and its boundaries; and
- Review of compiled records, maps, figures and reports applicable to the Site and surrounding properties.

Information was reviewed back to the first developed use of the property that may affect the environmental condition or to the extent that historical records allowed.

MTE has compiled a written report of findings including figures and appendices for use by the Client that has been prepared under the supervision of Mr. Michael Fabro, P.Eng, QP<sub>ESA</sub>. The qualifications of Mr. Fabro, Ms. Arissa Cummings and Ms. Jessica Sowa, who conducted the Site inspection and compiled the report, are included in **Section 6.0**.

#### 2.0 RECORDS REVIEW

#### 2.1 General

The Site has been used for residential purposes since the early 1960s when residential dwellings were constructed at 190, 202 and 216 Arkell Road. The residential dwelling at 210 Arkell Road was constructed in 1977. Prior to the 1960s, the area was primarily vacant or agricultural land.

#### 2.2 Aerial Photographs

Aerial photographs were reviewed for information pertaining to the Site and surrounding lands. MTE retained LGI Copy Service Canada and used Google Earth imagery to review select aerial photographs between 1930 and 2013 in approximately ten year intervals (where available at reasonable scale). Due to scale and clarity of specific aerial photographs, observations may be limited. Summaries of each photograph are described below. Copies of the aerial photographs are included in **Appendix A**.

Year	Aerial Photograph Description
1930	Site: The Site appeared to be undeveloped or used for agricultural purposes, with no discernable buildings observed on the Site.  Surrounding Land Uses: Arkell Road was visible directly east of the Site. The surrounding area was primarily agricultural. Two dirt driveways were observed north of the Site, with entrances from Arkell Road.
1951	Site: The Site appeared to be generally unchanged compared to the 1930 photograph.  Surrounding Land Uses: The surrounding lands appeared to be generally unchanged compared to the 1930 photograph.
1962	Site: The Site appeared to be developed with residential dwellings at 190, 202, and 216 Arkell Road.  Surrounding Land Uses: A dirt driveway was observed south of the Site, leading to inferred residential buildings. A long driveway to the north of the Site was observed to lead to a large residential property. Further north was agricultural land. Beyond Arkell Road to the East was agricultural land, with a farmstead located to the northeast of the Site. To the south of the Site was a residence followed by forested land.
1972	Site: The Site appeared to be generally unchanged compared to the 1962 photograph.  Surrounding Land Uses: In general, the surrounding lands appeared generally unchanged compared to the 1962 aerial photograph, with exception of an inferred warehouse or barn having been constructed to the southeast of the Site, south of Arkell Road (approximately 80 m southeast of the southeast corner of the Site).
1981	Site: The Site appeared to be generally unchanged compared to the 1972 photograph with the exception of the addition of a residential dwelling at 210 Arkell Road.  Surrounding Land Use: In general, the surrounding lands appeared similar to those in the 1972 aerial photograph. Development was observed in the area beyond the residential property to the east.

Year	Aerial Photograph Description
1990	Site: The Site appeared to be generally unchanged compared to the 1981 aerial photograph with the exception of the addition of a shed to the west of the residence at 210 Arkell Road.  Surrounding Land Uses: In general, the surrounding properties appeared relatively unchanged compared to the 1981 photograph.
2006	Site: Several areas of disturbed ground were visible in the backyard of 210 Arkell Road between the residence and shed, with an additional disturbed area observed on the north and south edges of the shed. Cars were observed to be parked along the north side of the shed. The former residence at 190 Arkell Road was not observed (inferred to have been demolished) and a new residential dwelling was observed further west of the original building location. The forested area behind the residence at 190 Arkell Road was observed to have been reduced, with the eastern edge of the forest significantly further west of the pond compared to the forest edge observed in the 1990 photograph.  Surrounding Land Uses: Northern lands were vacant or observed to be in use as agricultural land, with residential areas to the east and south of the Site. Zecca Drive, Coutts Court, and Bard Boulevard were observed along with completed homes. Amsterdam Crescent was not observed to have been built yet.
2013	Site: Disturbed ground areas formerly visible in the backyard and by the shed at 210 Arkell Road were observed to be covered in vegetation. The eastern edge of the forested area at 190 Arkell Road was observed to be further east, closer to the pond.  Surrounding Land Use: Land to the north of the Site was observed to be disturbed and inferred to have been cleared for development. The remainder of the surrounding properties were observed to be in use for residential purposes and to generally be representative of the area's current configuration.

#### 2.3 Municipal Directory Search

Municipal directories were reviewed at the Guelph public library for the Site and surrounding addresses. Municipal directories for the years between 1978 and 2013 were available and generally indicated that the properties surrounding the Site have been residential or undeveloped during that timeframe. Properties pertaining to the Site at 190 and 216 Arkell Road were first listed in the 1997/1998 directory. 202 Arkell Road was first listed in the 2003/2004 and 210 Arkell Road was first listed in 2012/2013. Listings prior to 1978 were not available.

The 1997/1998 directory listed *Dutch Mill Nursery Garden* at 135 Arkell Road, however there were no later listings for *Dutch Mill Nursery Garden*. Two other business listings within the Study Area included 210 Summerfield Drive (*All Occasion Cakes* and *Porta Plus*).

Summerfield Drive, Bard Boulevard, Coutts Court, and Zecca Drive were first listed in 2008/2009, and Amsterdam Crescent was first listed in 2012/2013. Amos Drive and Dawes Drive were not listed within the municipal directories.

#### 2.4 Fire Insurance Plans and Property Underwriters' Reports

Fire Insurance Plans (FIPs) were developed between 1875 and 1923 and were revised in some areas until the 1970s. FIPs typically illustrate building construction, occupancy and potential fire hazards and may provide information regarding environmental concerns such as storage tanks, transformers, boilers and electrical rooms.

MTE reviewed FIPs for the years 1897, 1907 (revised 1911) and 1960, as obtained from the Guelph Public Library. The FIPs provided coverage of the urban portion ("downtown") of Guelph, which did not include the Study Area. Given the rural nature of the Study Area during the years in which FIPs were created and updated, it is unlikely FIPs exist for the Site. No FIPs providing coverage of the Study Area were available for review.

#### 2.5 Topography, Geology and Hydrogeologic Setting

One 1983 Ontario Base Map (OBM) covering the Site and surrounding properties was reviewed (OBM No. 10 17 5650 48150). A copy of the 1983 OBMs is provided in **Appendix A**.

The UTM coordinates of the approximate centre of the Site are 565,184 metres east and 4,818,845 metres north. A review of the 1983 OBMs indicated the following:

- The Site appears to be located within a primarily residential area;
- Five buildings are shown to be present at the eastern portion of the Site, directly west of what is currently known as Arkell Road; and
- Based on the contour lines shown, Site elevation is relatively flat at 335.0 masl.

The Site is located within the Speed River Subwatershed and within the Guelph Drumlin Field characterized by drumlins and gravel terraces. The drumlins are comprised of sandy Wentworth Till, described as coarse-grained sandy to silty sand till (Chapman and Putnam, 1984).

The Site is underlain by the Guelph Formation, characterized as sandstone, shale, dolostone and siltstone.

#### 2.6 Environmental Risk Information Services (ERIS) Report

MTE contacted ERIS, an environmental database and information service company, to request a search of government (federal and provincial) and private records for information pertaining to the Study Area. A copy of the ERIS Report is provided in **Appendix B**.

Based on the ERIS Report, six water well records were returned for the Site. The records indicated the presence of four ground water monitoring wells and two domestic wells. No further records were returned for the Site.

The ERIS Report provided records of four environmental compliance approvals (ECAs), one TSSA historical pipeline incident, three spills, and 14 water wells associated with surrounding properties, as summarized:

- ECA records pertaining to municipal and private sewage works along the Arkell Road corridor from Gordon Street to Victoria Road and one ECA record pertaining to municipal drinking water systems at 164 Arkell Road;
- Spill records indicating one spill of hydraulic oil (quantity unknown) at 25 Coutts Court in 2015, a natural gas pipeline strike and discharge of natural gas at 14 Amos Drive in 2015, and a spill of petroleum-based oil in 2017 at 164 Arkell Road (quantity unknown, the spill was classified as a minor environmental spill);
- TSSA records indicate a natural gas discharge at 14 Amos Drive (listed above);
   and
- Water well records pertaining to test holes/monitoring wells and domestic well construction.

Groundwater is expected to flow in a southerly direction, thus the properties with reported historical spills are located cross-gradient and down-gradient from the Site therefore potential impact to the Site is inferred to be very low.

#### 2.7 Environmental Regulatory Agencies and Utilities

MTE requested and reviewed available records from several regulatory agencies. Pertinent records are summarized below and have been included in **Appendix C** of this report. If not listed otherwise, copies of the search results and records are maintained on file with MTE.

**Technical Standards and Safety Authority (TSSA):** The TSSA was contacted for electronic database information concerning underground storage tanks (USTs) or aboveground storage tanks (ASTs) on the Site and the following surrounding properties:

- 164, 182, and 220 Arkell Road;
- 2 Summerfield Drive; and
- 24 and 25 Coutts Court.

On September 18, 2018, the TSSA responded that no electronic records of any fuel storage tanks exist for the Site and surrounding properties. The response from the TSSA is provided in **Appendix C**.

**Ministry of Environment, Conservation and Parks:** The MECP was previously known as the Ontario Ministry of the Environment (MOE) and the Ontario Ministry of the Environment and Climate Change (MOECC). For ease of discussion in this report, "MECP" is used to represent this provincial ministry and is inclusive of MOE and MOECC.

**MECP Freedom of Information (FOI):** FOI requests were submitted to the MECP for information regarding environmental concerns on file for all four municipal addresses that comprise the Site. At the time of preparation of this report, responses had been provided from the MECP indicating no records had been found for the Site. FOI records are provided in **Appendix C**.

**MECP Inventory of Coal Gasification Plant Waste Sites in Ontario (April 1987):** The Site has not been used for the gasification of coal. No coal gasification plants were identified within 1 km of the Site.

MECP Inventory of Industrial Sites Producing Coal Tars and Related Tars in Ontario (November 1988): The production and use of coal or other tars has not taken place at the Site or within 1 km of the Site.

**MECP Waste Disposal Inventory (June 1991):** A review of the Waste Disposal Site Inventory indicated that there are no 'active' or 'closed' landfills registered on the Site or within 1 km of the Site.

**MECP PCB Storage Sites (July 2000):** The Site was not listed as a storage site for PCBs. No PCB storage sites were identified within the Study Area.

**MECP Access Environment (December 1999):** MTE reviewed the MECP online Access Environment database for any Certificate of Approval (C of A), Environmental Activity and Sector Registry (EASR) and Environmental Compliance Approval (ECA) records for the Site and Study Area.

Two records for the Site and surrounding area were returned indicating approval for private and municipal sewage works on Arkell Road, from Gordon Street to Victoria Road. The approvals were dated March 7, 2008. The registrations noted the requirement of the construction of storm and sanitary sewers, storm water management facilities, infiltration trenches, and storm water interceptors along this corridor to facilitate residential development.

An additional seven records were returned for the Victoria Gardens Subdivision located along Summerfield Drive. The approvals were dated for various phases of the subdivision construction, dating from 2003 to 2007. The registrations noted the requirement of the construction of storm and sanitary sewers, oil and grit separators, infiltration trenches and basin, dry ponds, and storm water interceptors within the subdivision construction.

No other EASR, C of A, or ECA records were identified for the Site or properties within the Study Area.

**MECP Environmental Registry:** MTE reviewed the Environmental Registry online and no records were found for the Site or properties within the Study Area.

**MECP Brownfield Environmental Site Registry:** MTE searched the Brownfield Environmental Site Registry for any Records of Site Condition (RSCs) filed within 250 m of the Site. One RSC was found at 246 Arkell Road (north adjacent property) to support a redevelopment from a vacant agricultural/residential area to a residential subdivision.

The RSC filing indicated the presence of five areas of potential environmental concern related to former farm operations and dumping. The RSC stated that only soil was impacted above applicable site condition standards established by the MECP, and migration of contaminants off of the RSC site was not anticipated as groundwater impacts were not identified. Approximately 218.49 tonnes of impacted soil was remediated via excavation, with confirmatory sampling. No additional soil was reportedly brought to the RSC site as backfill.

**MECP Hazardous Waste Information Network (HWIN):** MTE searched the HWIN online database for any active registrations for the Site. The Site is not listed as a registered waste generator. The surrounding properties were observed to be used for agricultural and/or residential purposes and, as such, no listings for the properties in HWIN were observed.

**MECP Water Well Records Inventory:** A review of the MOECC online water well records database identified two potable water wells on the Site. One record provided details for a well at 190 Arkell Road toward the southwest portion of the property that was drilled in 1962, and one another record provided details for a well located on the property line between 190 Arkell Road and the back portion of 210 Arkell Road, drilled in 1998. Based on discussions with the Site representative (refer to Section 4.3.1), domestic wells are located at 190 and 202 Arkell Road and the properties at 216 and 210 Arkell Road are serviced with municipal water.

In addition to potable water wells, four ground water monitoring wells were identified in the MECP online records. The monitoring wells were installed during the 2017 geotechnical investigation completed by Peto McCallum Ltd. (PML), see **Section 2.9**. The location of the monitoring wells are shown on **Figure 3**.

Based on a review of the MECP well records, stratigraphy in the general area of the Site is described as clay and gravel, followed by a grey hardpan layer, followed by fine sand and gravel, overlaying bedrock. Bedrock was encountered in one domestic well record at depths ranging from approximately 11.9 to termination at 24.4 mbgs. Ground water monitoring wells indicated shallow ground water was encountered as high as 1.1 mbgs, but indicated saturated soil conditions at the Site. Based on the available domestic well records, deep ground water was generally encountered in the bedrock at depths ranging from 19.8 to termination at 24.4 mbgs.

Environment Canada National Pollution Release Inventory (NPRI) (1992): The NPRI requires companies to report information on releases and transfers of pollutants to the Government of Canada on an annual basis. MTE reviewed the NPRI between 1993 and 2017 for information pertaining to the Site and Study Area. No records were returned for the Site or properties within the Study Area.

**Federal Contaminated Sites Inventory:** MTE reviewed the inventory for any Federal Contaminated Sites located on-Site or within the Study Area. Based on a review of the inventory, no records were identified for the Site or properties within the Study Area.

**Union Gas Limited (Union Gas):** MTE contacted Union Gas for information related to the installation of natural gas services at the Site. MTE received a response on September 24, 2018 indicating that natural gas services were installed at the Site properties on the following dates:

- 190 Arkell Road: September 1, 1995;
- 202 Arkell Road: November 16, 1992;
- 210 Arkell Road: May 17, 1978; and
- 216 Arkell Road: August 30, 1982.

The response from Union Gas is provided in **Appendix C.** 

#### 2.8 Company Records

No company records were made available to MTE for review.

#### 2.9 Previous Environmental Reports

The following environmental reports pertaining to the Site were available to MTE for review:

<u>Ontario</u>, dated April 20, 2017, completed by Peto MacCallum Ltd. for Crescent Homes Inc.

Peto MacCallum Ltd. (PML) completed a geotechnical investigation at the Site for a potential residential subdivision. The following pertinent information was identified by MTE:

- Six boreholes were completed as part of the investigation, completed to a maximum depth of 8.1 mbgs. Subsurface stratigraphy was identified as surficial topsoil and localized fill overlying cohesionless native deposits.
- Fill was found at approximately 0.46 to 0.69 mbgs in two boreholes, composed of either sand and gravel or silt. Native cohesionless deposits of silt, sand, or sand and gravel extended to borehole termination depths. Bedrock was not encountered in any borehole.

- Four of the six boreholes were completed as ground water monitoring wells with screened intervals ranging from approximately 6 to 8 m.
- Ground water was encountered at depths of 0.7 to 2.9 mbgs.
- Based on ground water observations, shallow ground water levels appear to slope down from north to south.
- Select soil samples were sampled and submitted for chemical analysis, including metals, inorganics, and pesticides. Two soil samples marginally exceeded the Table 1 Site Condition Standard for zinc (BH5-SS1 concentration of 313 μg/g and BH6-SS3 concentration of 370 μg/g, versus the 2011 Table 1 SCS of 290 μg/g).

# <u>Hydrogeological Investigation, 190-216 Arkell Road, Guelph, Ontario,</u> dated June 29, 2018, completed by MTE Consultants Inc. for Crescent Homes.

MTE completed a hydrogeological investigation at the Site for the proposed residential subdivision. The following pertinent information was identified:

- Shallow ground water at the Site is expected to flow in a southerly direction. Based on previous environmental reports the Site is generally flat with elevations ranging between 333.3 to 335.5 m above mean sea level, with elevation decreasing toward the northeast. Surface water runoff drains from south to north, toward the Provincially Significant Wetland (PSW).
- Ground water chemistry parameters were measured in the wells, including physical tests, anions and nutrients, and dissolved metals. Detectable nitrate, calcium, magnesium, potassium, silicon, and strontium concentrations were reported.
- Sodium, chloride, barium, copper, and zinc were also reported above detection limits but did not exceed the 2011 Table 1 SCS for ground water. Elevated sodium and chloride concentrations are inferred to be resulting from road salt application on Arkell Road and concentrations decrease from south to north.
- Recommendations included:
  - Ongoing groundwater monitoring outside of construction areas;
  - Soils brought to the Site for grading purposes must have the same or better infiltration rates as current conditions; and
  - A salt management plan is required for the Site.

**Note**: The 2011 Table 1 SCS are considered applicable to the Site as per O.Reg. 153/04 (section 41.(1) (a) ii) due to the presence of a PSW on the Site.

#### 2.10 Other Regulatory Agencies

#### 2.10.1 Grand River Conservation Authority

MTE reviewed the Grand River Conservation Authority on-line mapping resource for information regarding natural features on the Site and the Study Area. The following pertinent information was noted:

- The Site is located within a GRCA Regulation Limit;
- A Wetland is located on a portion of the west end of the Site;
- The closest municipal well is Burke Well located approximately 70 m south of the Site, west of Arkell Road;
- The Site is located within Well Head Protection Areas (WHPA) A and B of the Burke Well;
- The Site and Study Area are not located within an Issue Contributing Area; and
- The Site and Study Area are not located within an Intake Protection Zone (IPZ).

The Burke municipal supply well is located at 164 Arkell Road. The Burke well is screened within bedrock to depths of 79.9 mbgs and draws from the deep aquifer system. The well depth is within the Guelph – Middle Gasport Formation.

A portion of 190 Arkell Road is located within 100 metres of the Burke Well and is identified as WHPA-A. The remainder of the Site is located within WHPA-B, which is designated as a 2 year time-of-travel to the Burke Well.

A copy of the GRCA map is included in **Appendix C**.

#### 2.10.2 Ministry of Natural Resources and Forestry

MTE reviewed the Ministry of Natural Resources and Forestry (MNRF) online Natural Heritage mapping for information related to natural heritage features, Areas of Natural Scientific Interest (ANSIs), PSWs, and species-at-risk that may be present at the Site or within the Study Area. The MNRF mapping tool identified a Provincially Significant Wetland on the Site, as well as adjacent to the west and south of the Site. The American Burying Beetle is identified as an extirpated species (last observed 1930s) on the Site and in the Study Area; however, given the status of the species, it is unlikely to be currently present on the Site or within the Study Area.

A copy of the MNRF map is included in **Appendix C**.

#### 2.10.3 City of Guelph

#### City of Guelph Official Plan

MTE reviewed the Official Plan of the City of Guelph (Consolidated March 2018), for information regarding natural and cultural resources in the Study Area.

Information pertaining to the Site and surrounding areas is as follows:

- The Site and surrounding area are within a Significant Natural Area with Low Density Greenfield Residential and Low Density Residential, and is not located within a business, commercial, industrial land use area, or major utility (Schedule 2);
- The Site and surrounding area are located within a Natural Heritage System and are not located within a flood plain (Schedule 3);

- The Site and surrounding area are designated PSW, defined by the City of Guelph (Schedule 4A);
- The Site and surrounding area are defined by the City of Guelph as Natural Heritage Systems (Schedule 4B);
- The forested portion of the Site and surrounding area is designated Significant Woodlands (Schedule 4C);
- The Site and surrounding area are defined as containing Significant Wildlife Habitat (Schedule 4E);
- There are no railway lines present in the Site or Study area (Schedule 5); and
- The Site and surrounding area are within the Wellhead Protection Areas A and B (Schedule 7).

#### Environmental Records Inquiry

An Environmental Record Inquiry request was submitted to the City of Guelph for information regarding environmental concerns on file for the Site at 210 Arkell Road. A response was received from the City of Guelph on October 9, 2018. The response indicated that on May 28, 2004, an unknown quantity of sewage was released onto 210 Arkell Road from a neighbouring septic system. The historic sewage release is not considered a significant environmental concern to the Site.

The response from the City of Guelph is provided in **Appendix C.** 

#### 3.0 SITE VISIT AND INTERVIEW

#### 3.1 Site Visit

A Site inspection was completed on September 18, 2018, by Ms. Arissa Cummings and Ms. Jessica Sowa of MTE. The weather was slightly overcast and the ambient air temperature was approximately 20°C.

MTE returned to the Site on September 27, 2018 to inspect additional areas of the Site that were inaccessible during the initial Site visit.

The Inspection Report is included in **Appendix D**. Photographs were taken of the Site and adjacent properties at the time of the inspection and are included in **Appendix E**.

#### Limitations

During the Phase I ESA site visits, the following areas were inaccessible to MTE for inspection:

- Residential dwelling and detached garage located at 202 Arkell Road; and
- A small portion of the west end of the forested area located at 190 Arkell Road.

#### 3.2 Interviews

MTE conducted an interview with Mr. Ted Russell (the "Site representative"). Mr. Russell is a Project Manager for Crescent Homes and has been familiar with the Site for the last two years.

Additional information was provided during the Site visits by the former tenant of 210 and current tenant (previous owner) of 216 Arkell Road.

The Site Representative indicated stockpiling of fill material and personal vehicle maintenance had taken place on the Site. The tenants at 210 and 216 Arkell Road also indicated the following information:

- An electrical fire occurred on the exterior wall of the residence at 216 Arkell Road, no firefighting chemicals were used;
- Recreational burning had previously taken place at 210 Arkell Road;
- Mold was present in the basement of 216 Arkell Road due to flooding;
- Waste vehicle fluids (e.g., motor oil) from personal vehicle maintenance was disposed off-Site; and
- The test pit observed on the property at 210 Arkell Road during the initial Site Visit was used to test a privately-owned excavator and would be filled in.

The Site Representative and interviewed tenants were unaware of other environmental concerns such as past use of heating fuel oil, spills on Site, or demolition of previous structures.

The interview questionnaires for each property are provided in **Appendix D**.

#### 4.0 EVALUATION OF FINDINGS

#### 4.1 Site History and Description

The Site comprises 190, 202, 210, and 216 Arkell Road in Guelph, Ontario. The legal descriptions of the properties are as follows:

Municipal Address	Legal Description
190 Arkell Road	Pt Lot 6, Concession 8, Township Of Puslinch, As
	In Ros231085 ; Guelph
202 Arkell Road	Pt Lot 6, Concession 8, Township Of Puslinch, Part
	2, 61r516 ; Guelph
210 Arkell Road	Pt Lot 6, Concession 8, Township Of Puslinch, Part
	1 & 3, 61r516 ; Guelph
216 Arkell Road	Pt South 1/2 Of Rear Pt Of Lot 6, Con. 8, Township
	Of Puslinch, As In Ros605347; Guelph

The Site is approximately 2.6 hectares (6.3 acres) in size and is located west of the intersection of Arkell Road and Summerfield Drive in south Guelph. At the time of assessment, the Site was composed of four residential properties with municipal addresses 190, 202, 210 and 216 Arkell Road. Based on the review of aerial photographs and discussions with the Site Representative, development of the residential dwellings at 202 and 216 Arkell Road occurred in the early 1960s. The existing residential dwelling located at 190 Arkell Road was developed in the 1990s; however, a former residential dwelling first visible in the 1961 aerial photograph was historically located on this property. The residential dwelling at 210 Arkell Road was developed in 1978.

In addition to the residential dwellings, additional structures consisting of sheds and garages were located across the Site. The age of construction of these structures were unknown; however, it was evident that additional structures formerly located north and west of the existing shed located at 210 Arkell Road had been demolished. Surrounding the residences and sheds were backyards consisting of grass and/or landscaping. A wooded area and wetland were located along the west property boundary of the Site.

The primary access to the Site was from Arkell Road. The Site representative was not aware of any existing easements or rights-of-way on the Site.

As described in Section 2.10.3, The City of Guelph Official Plan identifies the Subject Lands as within a 'Greenfield Area' and classifies the property as 'Low Density Greenfield Residential'. The City of Guelph Official Plan does not identify the Site as a Regulatory Floodplain; however a Significant Natural Area is illustrated along the south and west boundary of the Site. The MNRF identifies this feature as a Provincially Significant Wetland.

The properties surrounding the Site included residential uses to the north, east, and south, and a wetland/forested area to the west and further south. Beyond the residential area to the north was agricultural land. A large residential property was located to the west and northwest, followed by a former golf course.

#### 4.2 Site Operations

MTE understands the Site has been used for residential purposes since approximately the early 1960s when the first residences were developed on the Site at 190, 202 and 216 Arkell Road. The residential dwelling at 210 Arkell Road was developed in 1977. Prior to the 1960s, the area was primarily vacant or agricultural land.

During the Site visit, MTE observed additional Site operations related to "hobby" or recreational use, including the following:

A woodshop located at 216 Arkell Road within the shed;

- A personal vehicle maintenance shed located at 210 Arkell Road, as confirmed by the tenant/former owner; and
- Former poultry areas at 210 Arkell Road.

#### 4.3 Utility Services

#### 4.3.1 Stormwater/Water Wells/Wastewater/Sewage Disposal

No stormwater management utilities (e.g. catch basin, sewers, etc.) were observed on the Site during the Site visit. Stormwater is inferred to either infiltrate the ground or is directed off-Site via overland flow toward catch basins located along Arkell Road.

The residential dwellings located at 190 and 202 Arkell Road were supplied with domestic wells located in the front yards of each residence. Reportedly, the residential dwellings located at 210 and 216 Arkell Road were supplied with municipal water.

Each residential dwelling on the Site was serviced with a septic system. The approximate locations of the septic systems are shown on **Figure 3**.

#### 4.3.2 Electricity, Heating and Cooling

All residential dwellings were supplied with electricity and natural gas. Heating was provided by forced air-furnace. Additional structures (including garages and sheds) were observed to be serviced with electricity. MTE observed air conditioning units at 190, 210, and 216 Arkell Road, with one window mounted unit observed at 202 Arkell Road on the north wall.

Interviews indicated that the homes had reportedly not been heated with fuel oil, but given the age of the buildings and former buildings, it is possible residences were once heated using this method (see **Section 4.4**). In addition, during the Site visit, wood fire stoves that were historically used to heat the basements were observed at 190 Arkell and 210 Arkell Road.

#### 4.3.3 Floor Drains, Sumps, Pits

MTE observed sump pits within the basements of 190, 210 and 216 Arkell Road property. According to the Site Representative, a sump pit is also located within the residential dwelling at 202 Arkell Road.

Reportedly, accumulated groundwater or storm water collected within the sump pits are discharged to the exterior surfaces of the Site, with exception of 216 Arkell Road, where the drainage from the sump has been diverted to a storm catch basin on Arkell Road.

MTE did not observe any additional floor drains or pits in accessible areas. The Site Representative did not know whether floor drains, pits, or oil/water separators were present on Site.

#### 4.3.4 Mechanical/Hydraulic Equipment

MTE did not observe any mechanical or hydraulic equipment in accessible areas.

#### 4.4 Aboveground and Underground Storage Tanks (ASTs/USTs)

At the time of the Site visit on September 18, 2018, no ASTs or USTs were observed at the Site in accessible areas. As stated in **Section 2.6**, the TSSA records indicated no ASTs or USTs at the Site or in the Study Area.

Based on correspondence received from Union Gas, natural gas services were installed for 210 Arkell Road at 1978, when the property was first developed. Therefore, there is likely no potential historic use of fuel oil at this property.

Union Gas indicated that the remaining properties were serviced with natural gas between 1982 and 1995. Based on the development of these properties (early 1960s), there is potential for the historic use of fuel oil for heating purposes at the former residential dwelling at 190 Arkell Road or formerly located within the current residential dwellings at 202 or 216 Arkell Road.

#### 4.5 Chemical Use and Storage

During the Site visit, MTE observed the following chemicals in storage:

- General cleaning supplies;
- Small canisters of paint;
- Oils and lubricants:
- Gasoline:
- Kerosene; and
- Hypochlorite solution.

Small quantities of consumer-sized cleaning supplies and paint were observed to be stored on shelves or the concrete floor of the basement at 190 Arkell Road. Small quantities of consumer-sized kerosene and hypochlorite solution were observed within the shed of 216 Arkell Road. Consumer-sized containers of oils were observed on a shelf within the shed at 210 Arkell Road and small quantities of gasoline in jerry cans were observed within the sheds at 202 and 216 Arkell Road.

According to the tenant at 216 Arkell Road, minor amounts of varsol, wood stains and glue were historically used for recreational woodshop purposes. Reportedly, no wastes were generated from the use of these chemicals.

No evidence of significant spills or leaks from any chemical storage areas was identified during the Site visit. However, minor areas of oil staining were observed on the driveway and beneath the tractor stored in the shed at 210 Arkell Road.

#### 4.6 Solid Waste

Based on observations made during the site visit and discussions with the Site Representative, solid wastes generated on-Site included domestic refuse as well as scrap metal and construction debris, as described below.

Domestic refuse is reportedly removed off-Site via municipal curbside pickup on a weekly basis.

Scrap metal/waste wood was observed on the bare ground to the west of the shed at 210 Arkell Road. According to the Site Representative, this scrap metal and waste wood was reportedly associated with the demolition of former structures located north and west of the current shed at 210 Arkell Road. Several empty pails and eight empty metal drums were observed within the shed at 210 Arkell Road. According to the former tenant, the empty pails were used for wine-making or storing grains and the empty drums were used to store grains for the poultry formerly raised on the property.

Yard waste was observed to be stored in bags along the west property line at 216 Arkell Road in the wooded area and a dishwasher was observed along the west side of the residence at 210 Arkell Road.

#### 4.7 Hazardous and Liquid Waste

Waste oils generated from personal vehicle maintenance at 210 Arkell Road was reportedly collected and disposed of off-Site at a recycling facility. No active oil storage was observed at 210 Arkell Road by MTE during the Site visit.

During the Site visit, MTE observed multiple small pails of waste oil at the east exterior of the woodshop shed at 216 Arkell Road. According to the tenant, the waste oil was from lawn mower maintenance and the tenant reportedly disposes the oil regularly at an off-Site facility.

No records of hazardous and liquid waste removal were available.

#### 4.8 Unidentified Substances or Odours

No unidentified substances or unusual odours were observed or detected in the accessible areas of the Site at the time of inspection.

#### 4.9 Fill Materials

Stockpiled fill materials were observed to the north of the residence at 190 Arkell Road, around the pond area in three piles (see **Figure 3**). The Site Representative indicated that approximately 100 tonnes of fill was imported from 1 Castlebury Drive, Guelph, and would potentially be utilized to re-grade the Site for redevelopment. No analytical information regarding the imported fill material was provided.

In addition, the inferred demolition of the historical house at 190 Arkell Road likely required fill for re-grading of the property and portions of the foundation may remain.

The presence of fill material of unknown quality at the Site represents a potential environmental concern.

#### 4.10 Air Emissions

No evidence of odours or particulate accumulation associated with the operation of any of the potential air emission sources operated at the Site was observed by MTE in the accessible areas of the Site during the inspection. Potential sources of air emissions from current and historical Site operations are limited to natural gas heating equipment.

#### **4.11 Fires**

MTE did not observe any areas on Site where current open burning was conducted. However, during the Site visit an area of recreational burning (e.g. fire pit) was observed southeast of the shed at 210 Arkell Road.

The tenant of 216 Arkell Road indicated an electrical fire had occurred "at the south exterior of the residential dwelling resulting from a light. Reportedly, fire response was contacted, however, the electrical fire was suppressed without the use of firefighting chemicals.

No other interviews indicated that fires had occurred at the Site. No records were available relating to any historical fires at the Site.

#### 4.12 Spills / Releases

Interviews with tenants/former owners indicated no spills or releases had taken place on Site. At the time of Site visits, no significant areas of staining were observed; however, minor areas of oil staining were observed on the driveway and beneath the tractor stored in the shed at 210 Arkell Road.

#### 4.13 Stained Materials and Stressed Vegetation

No significant staining or stressed vegetation was observed in the accessible areas of the Site by MTE during the Site visit.

#### 4.14 Test Pits

At the time of the initial Site visit, a small, open excavation was observed in the central area of the Site to the west of the shed at 210 Arkell Road. The tenant of the residence indicated that the excavation was the result of testing the function of a mini-excavator and soil was not excavated for any other reason. The tenants indicated to the Site Representative that the excavation would be backfilled. See **Figure 3** for the location of the excavation.

#### 4.15 Special Attention Items

#### 4.15.1 Asbestos Containing Materials

Asbestos is defined as a designated substance under the Ontario Occupational Health and Safety Act (OHSA). Asbestos containing materials (ACM) were discontinued from use in the early 1980's. No evidence of ACMs were observed within the buildings that were accessed; however, given the age of the remaining buildings and access limitations, ACMs may be present in building materials.

#### 4.15.2 Lead

Lead can typically be found in paint in older buildings. Lead was banned from products in the early 1970's and is considered a designated substance under the OHSA. Given the age of some of the buildings, lead may be present in paint in these locations. However, no material sampling was performed as part of this investigation.

#### 4.15.3 Polychlorinated Biphenyls (PCBs)

The use of PCB's was phased out in 1978. Some portions of the Site were initially developed prior to 1978 and, as such, PCB equipment may be present at the Site. No PCB equipment was observed during the Site visit.

#### 4.15.4 Ozone Depleting Substances (ODS)

Refrigeration and air conditioning equipment may contain refrigerants composed of ODSs. The occurrence of equipment on Site which may contain ODSs does not represent a concern with respect to soil and/or groundwater. However, this equipment must be maintained by qualified contractors and ODSs must be handled and disposed in accordance with regulatory requirements.

#### 4.15.5 Urea Formaldehyde Foam Insulation (UFFI)

Urea formaldehyde foam insulation was not observed during the Site visit to accessible areas. No UFFI sampling was completed as part of this Phase I ESA.

#### 4.15.6 Radon Gas

Radon is a naturally occurring radioactive gas that is odourless and colourless. It is formed by the natural breakdown of uranium in soil and bedrock containing deposits of uranium, granite, coal or black shale. Radon may enter a building through cracks and penetrations in concrete foundations, earth floors, wall-slab joints, drains and sumps or sewers. In enclosed indoor spaces, such as a basements and crawlspaces, radon gas can accumulate. The presence of radon can only be confirmed through sampling. No radon sampling was completed as part of this Phase I ESA.

#### 4.15.7 Water Staining/Mould

Due to accessibility limitations, no observation of water staining and/or mould was observed by MTE.

Through the questionnaire, the tenant of 216 Arkell Road indicated the basement had water damage and mould due to several floods.

No intrusive investigation to observe concealed spaces or material sampling was conducted as part of this investigation.

#### 4.15.8 Electric and Magnetic Fields

Over-head electrical distribution lines were observed on the south side of Arkell Road. No high-voltage transmission lines or electrical substations, which could generate significant electromagnetic fields, were identified on or adjacent to the Site. Although electromagnetic fields are assumed to be typical for developed areas, no testing was performed as part of this assessment.

#### 4.15.9 Noise and Vibration

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

No major or persistent sources of noise and/or vibration were observed on or adjacent to the Site at the time of the Site visit. However, no noise or vibration testing was performed as part of this assessment.

#### 4.16 Surrounding Properties

The properties adjoining and surrounding the Site were observed during the Site reconnaissance from publicly accessible locations. These properties are outlined on **Figure 2** and are summarized below.

Position Relative to the Site	Description	Potential for Contamination
North	The Site was bordered to the north by residential properties, along with Amos Drive and Dawes Avenue, followed by an agricultural area.	Surrounding properties are not
East	The Site was bordered to the east by the Arkell Road/Summerfield Drive intersection, followed by residential properties, followed by Amsterdam Crescent and Coutts Crescent, followed by residential properties.	considered to represent a potential environmental concern to the Site.

Position Relative to the Site	Description	Potential for Contamination
South	The Site was bordered to the west by one residential property, a municipal wellhead and followed by undeveloped woodland area.	
West	The Site was bordered to the west by undeveloped forested area, followed by a large residential property, followed by an ongoing residential development (former golf course).	

#### 5.0 CONCLUSIONS AND RECOMMENDATIONS

MTE reviewed available records for properties within 250 metres of the Site (representing the "Study Area") - including available aerial photographs; geology and hydrogeological records and mapping. MTE also contacted the City of Guelph and provincial regulatory agencies including the MECP and TSSA for information related to the Site and surrounding area.

Based on the information compiled through records review, interviews and Site visits, no issues representing potential or actual/known environmental contamination associated with surrounding properties were identified. However, the Phase I ESA identified the following potential or actual/known environmental concerns associated with the Site:

- Soil sample results from the PML Geotechnical report identified exceedances of the applicable Table 1 SCS for zinc at BH5 (313 μg/g) and BH6 (370 μg/g);
- Importation of fill of unknown quality used for backfill associated with the demolition of the former residential dwelling at 190 Arkell Road, including currently stockpiled material; and
- Potential historic use of furnace oil for residential heating purposes at 190, 202 and 216 Arkell Road.

Further to the above, MTE also notes the following:

- A locally significant natural area zoned as a Provincially Significant Wetland by the MNRF is located on the west end of the Site and further south:
- The presence of domestic wells on Site; and
- The distance of the Site to the Burke municipal well (approximately 70m) and the location of the Site within wellhead protection area WHPA-A.

While zinc concentrations measured in soil samples from the Site exceeded the 2011 Table 1 SCS, the City of Guelph has acknowledged the presence of elevated levels of zinc in soil in various areas of the City (email communication to MTE Consultants Inc.). Elevated levels of zinc in these areas are inferred to not be attributed to an anthropogenic source. Considering this, zinc is not inferred to represent a potential environmental concern for the Site.

Based on the findings of this Phase I ESA, actual and potential environmental concerns have been identified at the Site. In order to assess potential environmental concerns associated with soil and groundwater quality as they may impact future development, intrusive investigation to address the aforementioned issues is recommended. In particular, a Phase II ESA is recommended to investigate the quality of fill material at 190 Arkell Road associated with the current stockpiles and the demolition of the former residential dwelling, as well as to investigate the presence of releases from potential historic use of fuel oil for heating purposes at all residential dwellings.

Alternatively, these issues could be addressed through investigations during the first stages of redevelopment of the Site, considering it is understood that redevelopment will including the demolition of all buildings and significant ground surface disturbance. However, combining the investigation of the aforementioned issues with the commencement of Site redevelopment may result in undesirable impacts to the redevelopment schedule and/or budget, should the management of any significant amounts of contaminated soil and/or groundwater be required.

Notwithstanding the above, MTE also recommends the following:

- In addition, the on-Site monitoring wells should be operated and maintained in accordance with Ontario Regulation 903 or properly decommissioned as per the Regulation should they no longer be required;
- Solid waste debris (i.e. scrap metal and waste wood piles) should be collected and removed in accordance with regulatory requirements (e.g. Ontario Regulation 347);
- Additional sampling and characterization of soils at the Site may be required to determine any limitations on the potential reuse of excess soil generated during future redevelopment of the Site (if excess soil generation is anticipated); and
- A pre-demolition designated substances survey should be conducted prior to redevelopment of the Site and any designated substance should be managed in accordance with regulatory requirements during demolition.

This report does not assess geotechnical issues or compliance with municipal by-laws/permits.

#### 6.0 QUALIFICATIONS OF ASSESSORS

As required by CSA Standard Z768-01, an appropriate combination of formal education, skills, experience and training is required in order to provide a technically sound and rational Phase I ESA. The key participants involved in performing the components of the Phase I ESA are Mr. Michael Fabro, Ms. Arissa Cummings, and Ms. Jessica Sowa.

Mr. Fabro has obtained Bachelor of Applied Science, Honours Environmental Engineering, Management Sciences Option and Master of Environment and Business degrees from the University of Waterloo. His responsibilities include project management, site inspections, regulatory and public liaison, coordinating field work activities including soil/sediment/groundwater sampling, data analysis, remediation planning and report preparation. Mr. Fabro has over 10 years of professional experience during which he has conducted phased Environmental Site Assessments for over 150 properties. Mr. Fabro is a licensed Professional Engineer in the Province of Ontario and a Qualified Person for Environmental Site Assessment as defined in Ontario Regulation 153/04 (as amended).

Ms. Cummings is a graduate of the Honours Biology Program at the University of Waterloo and the Environmental Engineering Applications Program at Conestoga College. She has over 5 years of experience in the environmental consulting industry that includes Phase I and II Environmental Site Assessments, environmental groundwater sampling, drilling supervision, remediation, and collection of surficial and subsurface soil samples.

Ms. Sowa is a graduate of the Honours Toxicology Program and Masters of Environmental Science Program at the University of Guelph. She has approximately 2 years of experience in the environmental consulting industry including environmental ground water sampling, collection of surficial and subsurface soil samples, assistance with authorship of Phase I and II Environmental Site Assessments, and authorships of Environmental Risk Assessments.

#### 7.0 LIMITATIONS

Services performed by MTE Consultants Inc. (MTE) were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the Environmental Engineering & Consulting profession. No other warranty or representation expressed or implied as to the accuracy of the information, conclusions or recommendations is included or intended in this report.

This report was completed for the sole use of MTE and Crescent Homes Ltd. No other parties may rely upon this report without the written permission of MTE. This report was completed in accordance with the Scope of Work referred to in Section 1.2 and meets the mandatory requirements of CAN/CSA-Z768-01. As such, this report may not deal with all issues potentially applicable to the site and may omit issues, which are or may be of interest to the reader. MTE makes no representation that the present report has dealt with any and all of the important features, including any or all important environmental features, except as provided in the Scope of Work. All findings and conclusions presented in this report are based on site conditions, as they existed during the time period of the investigation. In addition, MTE has relied on information provided by the persons interviewed as part of this study (identified herein) as being accurate and representative. This report is not intended to be exhaustive in scope or to imply a risk-free facility.

Any use which a third party makes of this report, or any reliance on, or decisions to be made based upon it, are the responsibility of such third parties. MTE accepts no responsibility for liabilities incurred by or damages, if any, suffered by any third party as a result of decisions made or actions taken, based upon this report. Others with interest in the site should undertake their own investigations and studies to determine how or if the condition affects them or their plans.

It should be recognized that the passage of time may affect the views, conclusions and recommendations (if any) provided in this report because environmental conditions of a property can change. Should additional or new information become available, MTE recommends that it be brought to our attention in order that we may re-assess the contents of this report.

Respectfully Submitted,

MTE CONSULTANTS INC.

Michael Fabro, P.Eng., QP<sub>ESA</sub>

**Environmental Engineer** 

Arissa Cummings, B.Sc. Environmental Scientist

Jessica Sowa, M.E.S., B.Sc. Environmental Scientist

#### 8.0 LIST OF REFERENCES AND SOURCES OF INFORMATION

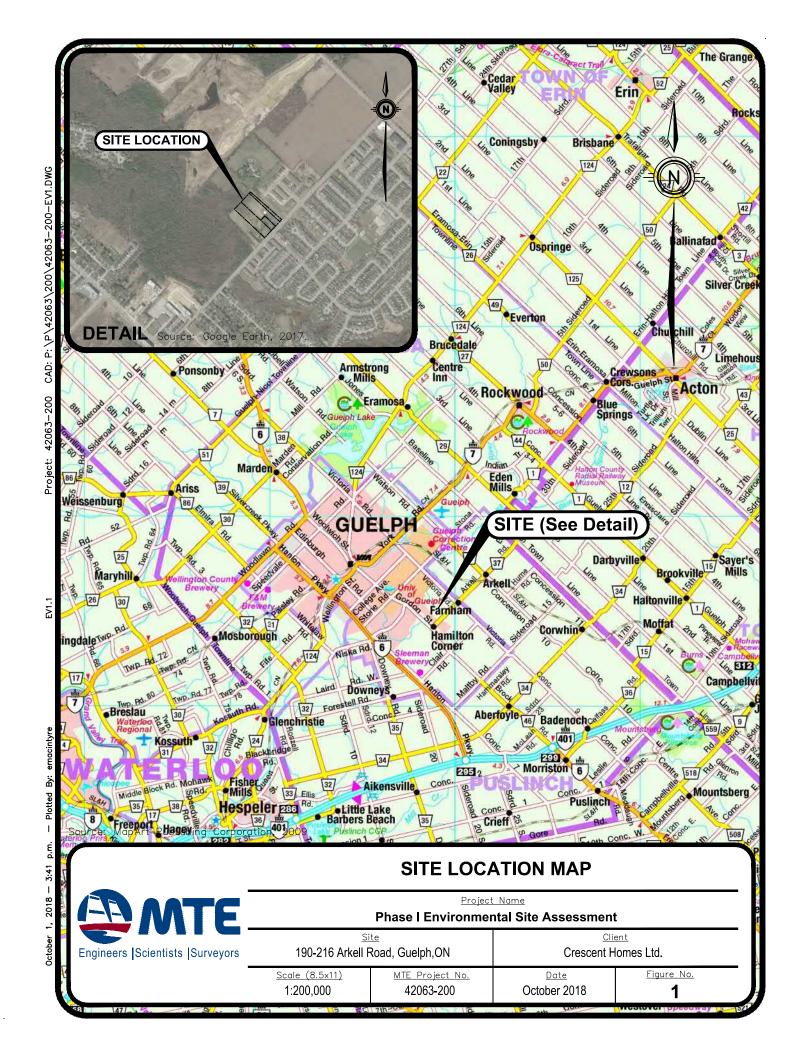
The following list of references and sources were reviewed for the purposes of preparing the report:

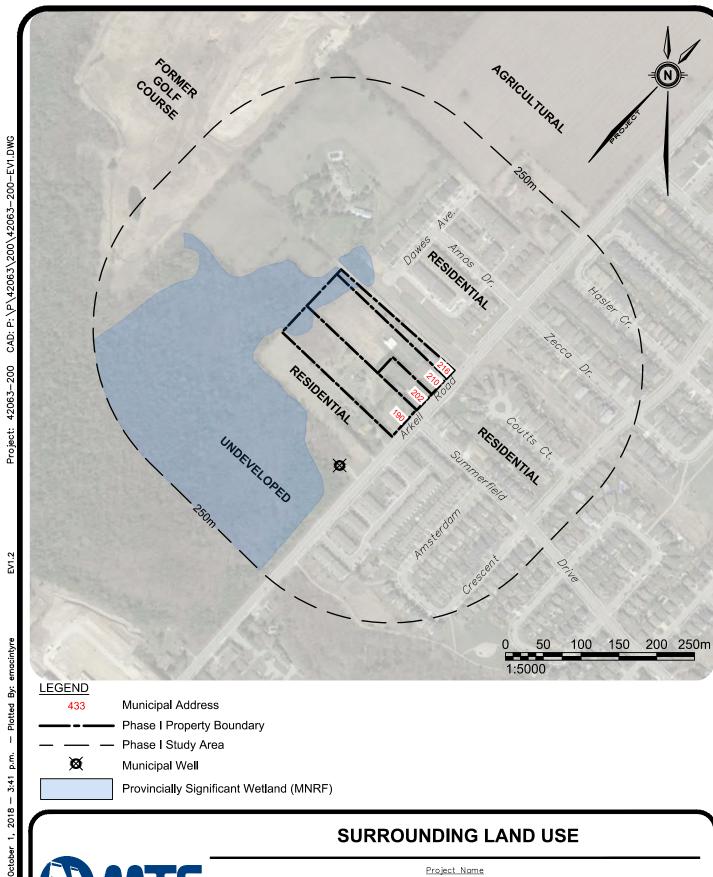
Applicable Section	Reference / Source	Date
All	Canadian Standards Association Z768-01 "Phase I – Environmental Site Assessments"	November 2001 Reaffirmed 2016
2.2	Aerial images, LGI Copy Services Canada	1930, 1951, 1990
2.2	Google Earth Imagery	2006 and 2013
2.5	ERIS Report Number 20180913184	September 20, 2018 (date of report)
2.6	Technical Standards and Safety Authority – Fuel Safety Division inquiry	September 20, 2018 (date of response)
2.6	Ministry of the Environment and Climate Change, Freedom of Information	Response not yet received
2.6	Ontario Ministry of the Environment, "Inventory of Coal Gasification Plant Waste Sites in Ontario"	April 1987, Reprinted February 1989
2.6	Ministry of the Environment, Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario	November 1988
2.6	Ontario Ministry of the Environment, "PCB Site Inventory System 2000"	July 2000
2.6	Ontario Ministry of the Environment, "Waste Disposal Site Inventory"	June 1991
2.6	Ontario Ministry of the Environment, Brownfields Environmental Site Registry (website)	January 15, 2018 (date of search)
2.6	Ontario Ministry of the Environment Hazardous Waste Information Network (website)	January 19, 2018 (date of search)

Applicable Section	Reference / Source	Date
2.6	Ministry of the Environment and Climate Change, Water Well Inventory (website)	January 12, 2018 (date of search)
2.7	Union Gas Limited Natural Gas Servicing Information Request	September 24, 2018 (date of response)
2.7	Chapman and Putnam. The Physiography of Southern Ontario, Third Edition.	1984
2.7	Ontario Base Map, Ministry of Natural Resources 10 17 5650 48150	1983 (date of aerial images)
2.10.1	Grand River Conservation Authority (website)	September 14, 2018 (date of search)
2.10.2	Ministry of Natural Resources and Forestry Natural Heritage Map	September 14, 2018 (date of search)
2.10.3	City of Guelph Information Request and Response	October 9, 2018 (date of response)
2.11.3	City of Guelph Official Plan	March 2018
5.0	City of Guelph, Project Engineer Supervisor (e-mail communication with MTE Consultants Inc.)	June 2016



## **FIGURES**





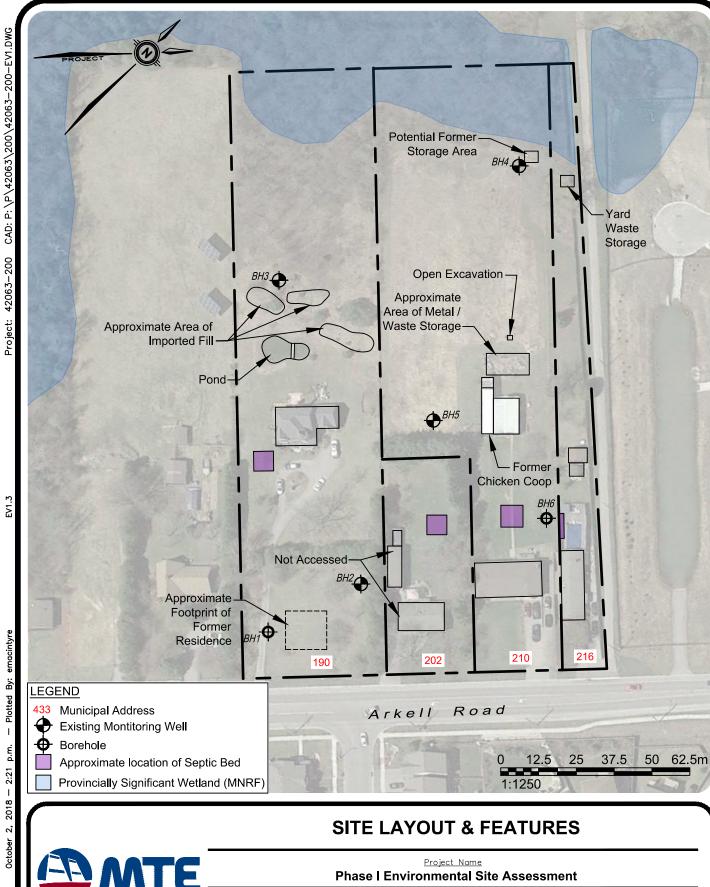
Provincially Significant Wetland (MNRF)

### **SURROUNDING LAND USE**



<u>Project Name</u> **Phase I Environmental Site Assessment** 

<u>Site</u>		<u>Client</u>	
190-216 Arkell Road, Guelph,ON		Crescent H	lomes Ltd.
<u>Scale. (8.5x11)</u> <b>1:5000</b>	MTE Project No. 42063-200	Date October 2018	Figure No. <b>2</b>



# Engineers | Scientists | Surveyors

<u>Site</u>		<u>Client</u>	
190-216 Arkell Road, Guelph,ON		Crescent H	lomes Ltd.
Scale. (8.5x11) 1:1250	MTE Project No. 42063-200	Date October 2018	Figure No.

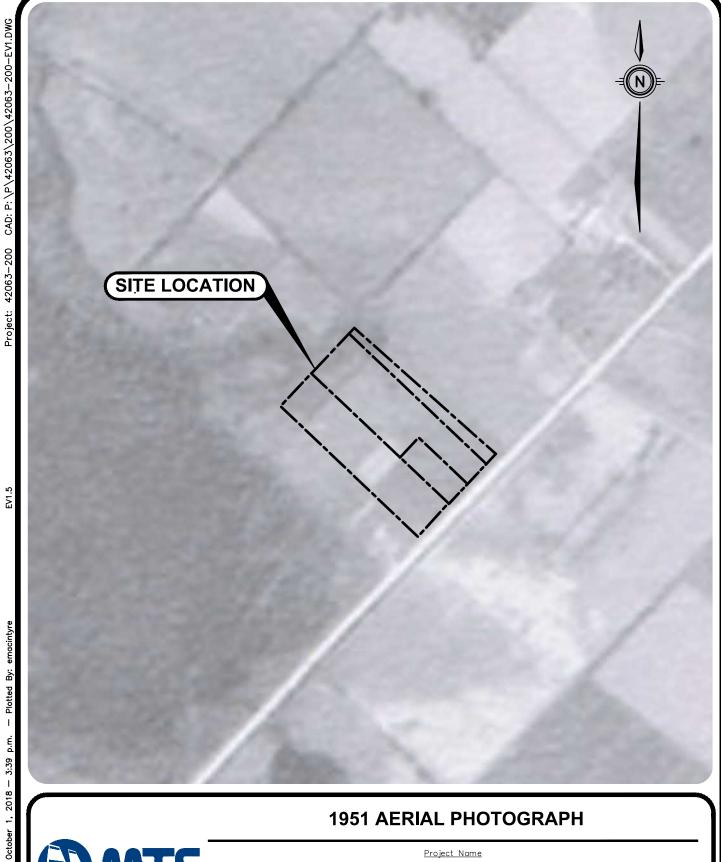


# **APPENDIX A**

# MAPS AND AERIAL PHOTOGRAPHS

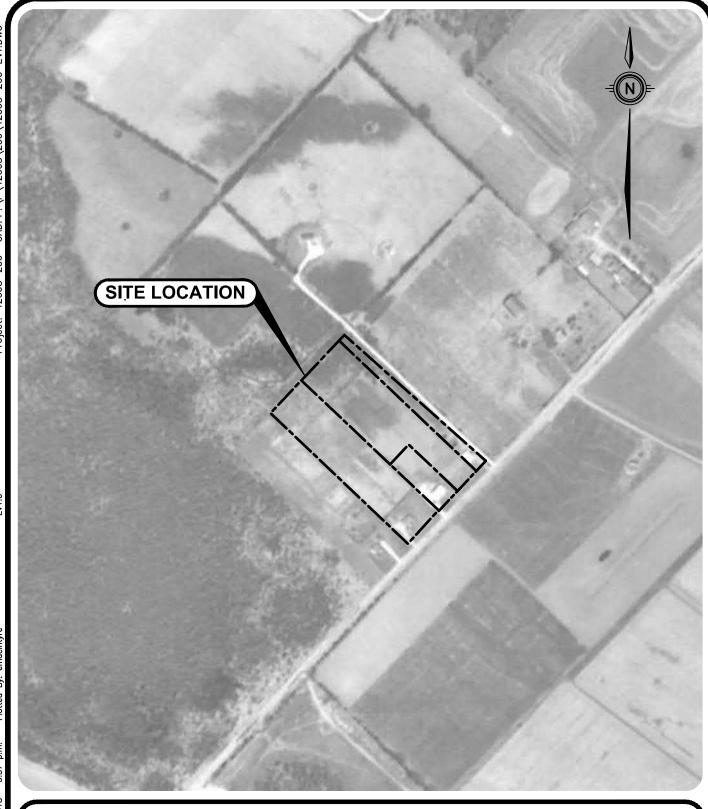


	<u>Site</u>	<u>Client</u>		
190-216 Arkell Road, Guelph,ON		Crescent Homes Ltd.		
<u>Scale. (8.5x11)</u> 1:4000	MTE Project No. 42063-200	Date October 2018	Appendix:	





	<u>Site</u>	<u>Client</u>		
190-216 Arkell Road, Guelph,ON		Crescent Homes Ltd.		
<u>Scale. (8.5x11)</u> 1:4000	MTE Project No. 42063-200	Date October 2018	Appendix:	



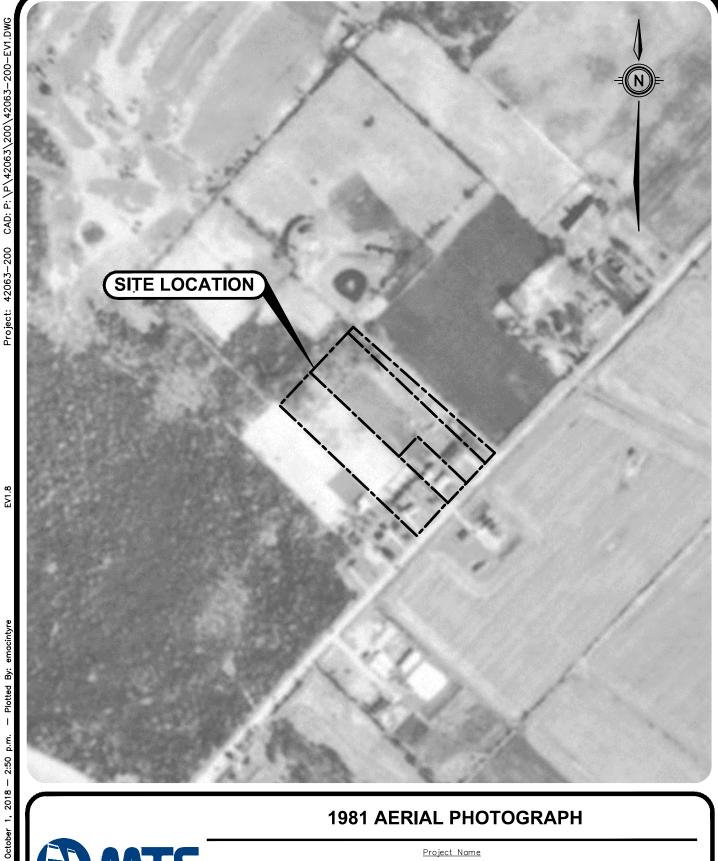


<u>Site</u>		<u>Client</u>	
190-216 Arkell Road, Guelph,ON		Crescent Homes Ltd.	
<u>Scale. (8.5x11)</u> <b>1:4000</b>	MTE Project No. 42063-200	Date October 2018	Appendix:



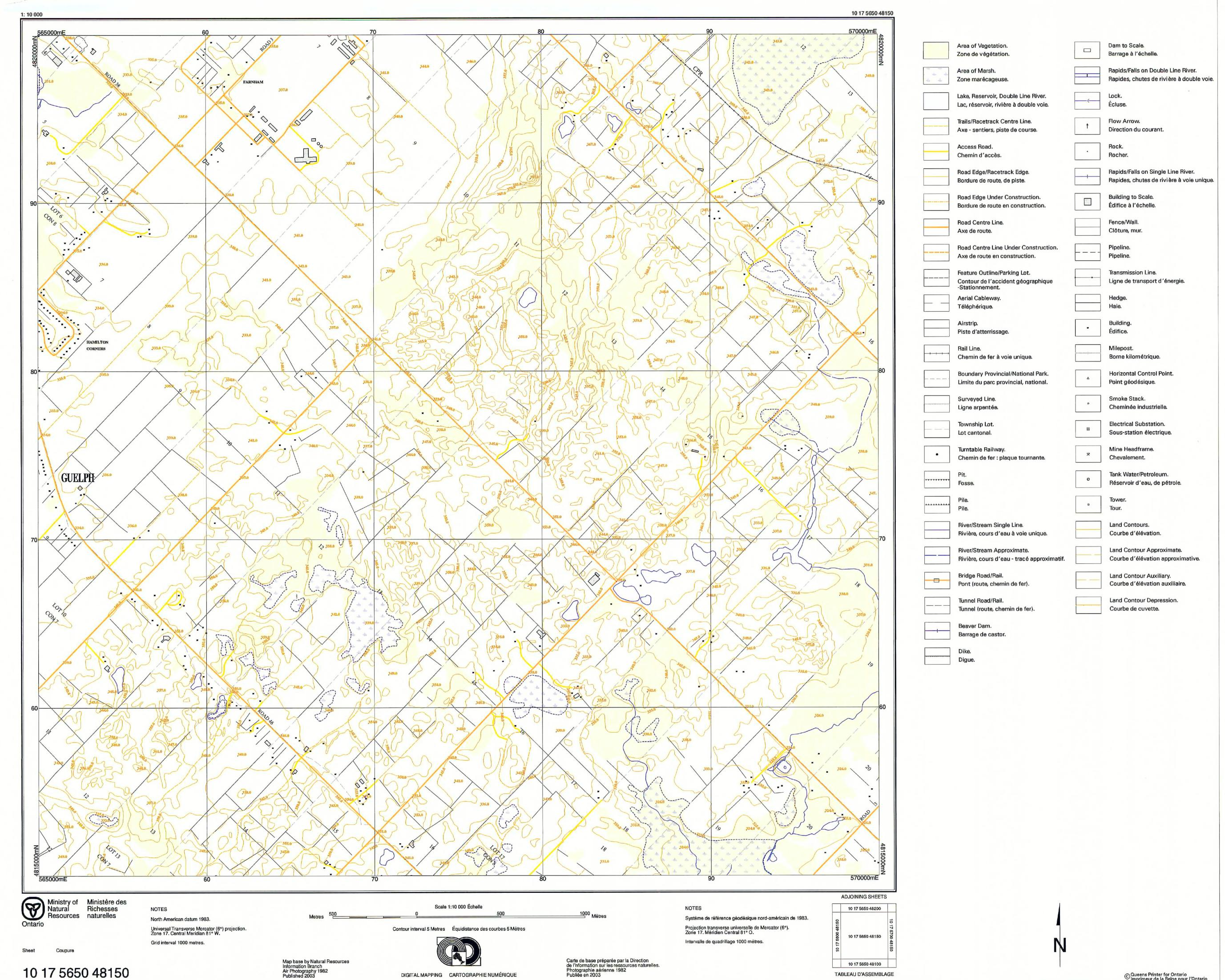


	<u>Site</u>	<u>Client</u>		
190-216 Arkell Road, Guelph,ON		Crescent Homes Ltd.		
<u>Scale. (8.5x11)</u> 1:4000	MTE Project No. 42063-200	Date October 2018	Appendix:	



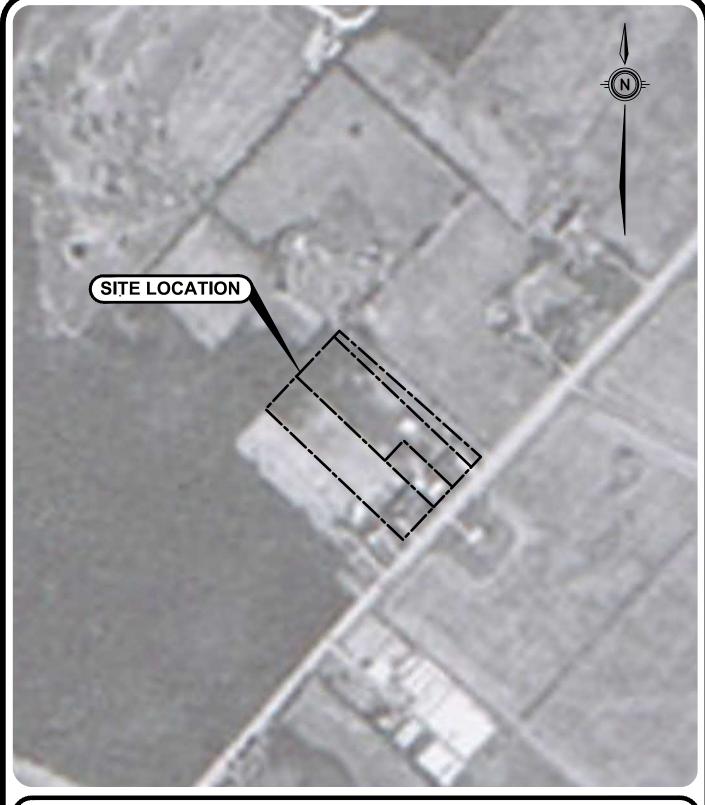


<u>Site</u>		<u>Client</u>		
190-216 Arkell F	90-216 Arkell Road, Guelph,ON Crescent Homes Ltd.		lomes Ltd.	
<u>Scale. (8.5x11)</u>	MTE Project No.	<u>Date</u>	Appendix:	
1:4000	42063-200	October 2018	Α	





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	<u>Site</u>	<u>Client</u>		
190-216 Arkell Road, Guelph,ON		Crescent Homes Ltd.		
Scale. (8.5x11) 1:4000	MTE Project No. 42063-200	Date October 2018	Appendix:	





<u>Site</u>		<u>Client</u>	
190-216 Arkell F	216 Arkell Road, Guelph,ON Crescent Homes Ltd.		lomes Ltd.
<u>Scale. (8.5x11)</u>	MTE Project No.	<u>Date</u>	Appendix:
1:4000	42063-200	October 2018	<b>A</b>





	<u>Site</u>	<u>Client</u>	
190-216 Arkell Road, Guelph,ON		Crescent Homes Ltd.	
Scale. (8.5x11) 1:4000	MTE Project No. 42063-200	Date October 2018	Appendix:





<u>Site</u>		<u>Client</u>	
190-216 Arkell Road, Guelph,ON		Crescent Homes Ltd.	
<u>Scale. (8.5x11)</u> <b>1:4000</b>	MTE Project No. 42063-200	Date October 2018	Appendix:



# **APPENDIX B**

# **ERIS REPORT**



# DATABASE REPORT

Project Property: Arkell Road

190 Arkell Road

Guelph ON N1L 1E6

Project No: TBD

Report Type: Standard Report

Order No: 20180913184

Requested by: MTE Consultants Inc.

Date Completed: September 20, 2018

Environmental Risk Information Services

A division of Glacier Media Inc.

P: 1.866.517.5204 E: info@erisinfo.com

www.erisinfo.com

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# **Executive Summary**

#### **Property Information:**

Project Property: Arkell Road

190 Arkell Road Guelph ON N1L 1E6

Project No: TBD

Coordinates:

 Latitude:
 43.519718

 Longitude:
 -80.193266

 UTM Northing:
 4,818,847.36

 UTM Easting:
 565,198.72

 UTM Zone:
 UTM Zone 17T

**Elevation:** 1,099 FT 334.86 M

**Order Information:** 

Order No: 20180913184

Date Requested: September 13, 2018

Requested by: MTE Consultants Inc.

Report Type: Standard Report

Historical/Products:

# Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	Abandoned Aggregate Inventory	Υ	0	0	0
AGR	Aggregate Inventory	Υ	0	0	0
AMIS	Abandoned Mine Information System	Υ	0	0	0
ANDR	Anderson's Waste Disposal Sites	Υ	0	0	0
AUWR	Automobile Wrecking & Supplies	Υ	0	0	0
BORE	Borehole	Υ	0	0	0
CA	Certificates of Approval	Υ	0	0	0
CFOT	Commercial Fuel Oil Tanks	Υ	0	0	0
CHEM	Chemical Register	Υ	0	0	0
CNG	Compressed Natural Gas Stations	Υ	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Υ	0	0	0
CONV	Compliance and Convictions	Υ	0	0	0
CPU	Certificates of Property Use	Υ	0	0	0
DRL	Drill Hole Database	Υ	0	0	0
DRYCLEANERS	Dry Cleaning Facilities	Υ	0	0	0
EASR	Environmental Activity and Sector Registry	Υ	0	0	0
EBR	Environmental Registry	Υ	0	0	0
ECA	Environmental Compliance Approval	Υ	0	4	4
EEM	Environmental Effects Monitoring	Υ	0	0	0
EHS	ERIS Historical Searches	Υ	0	2	2
EIIS	Environmental Issues Inventory System	Υ	0	0	0
EMHE	Emergency Management Historical Event	Υ	0	0	0
EXP	List of TSSA Expired Facilities	Υ	0	0	0
FCON	Federal Convictions	Υ	0	0	0
FCS	Contaminated Sites on Federal Land	Υ	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Υ	0	0	0
FST	Fuel Storage Tank	Υ	0	0	0
FSTH	Fuel Storage Tank - Historic	Υ	0	0	0
GEN	Ontario Regulation 347 Waste Generators Summary	Υ	0	0	0
GHG	Greenhouse Gas Emissions from Large Facilities	Υ	0	0	0
HINC	TSSA Historic Incidents	Υ	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Υ	0	0	0
INC	TSSA Incidents	Υ	0	0	0
LIMO	Landfill Inventory Management Ontario	Υ	0	0	0
MINE	Canadian Mine Locations	Υ	0	0	0
MISA PENALTY	Environmental Penalty Annual Report	Υ	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
MNR	Mineral Occurrences	Υ	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Υ	0	0	0
NCPL	Non-Compliance Reports	Υ	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Υ	0	0	0
NDSP	National Defense & Canadian Forces Spills	Υ	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Υ	0	0	0
NEBI	National Energy Board Pipeline Incidents	Υ	0	0	0
NEBW	National Energy Board Wells	Υ	0	0	0
NEES	National Environmental Emergencies System (NEES)	Υ	0	0	0
NPCB	National PCB Inventory	Υ	0	0	0
NPRI	National Pollutant Release Inventory	Υ	0	0	0
OGW	Oil and Gas Wells	Υ	0	0	0
OOGW	Ontario Oil and Gas Wells	Υ	0	0	0
OPCB	Inventory of PCB Storage Sites	Υ	0	0	0
ORD	Orders	Υ	0	0	0
PAP	Canadian Pulp and Paper	Υ	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Υ	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Υ	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Υ	0	0	0
PTTW	Permit to Take Water	Υ	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Υ	0	0	0
RSC	Record of Site Condition	Υ	0	0	0
RST	Retail Fuel Storage Tanks	Υ	0	0	0
SCT	Scott's Manufacturing Directory	Υ	0	0	0
SPL	Ontario Spills	Υ	0	3	3
SRDS	Wastewater Discharger Registration Database	Υ	0	0	0
TANK	Anderson's Storage Tanks	Υ	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Υ	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Υ	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Υ	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Υ	0	0	0
WWIS	Water Well Information System	Y	0	20	20
		Total:	0	30	30

### Executive Summary: Site Report Summary - Project Property

Map DB Company/Site Name Address Dir/Dist (m) Elev diff Page Key (m) 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	wwis		Guelph ON  Well ID: 7285695	SE/10.4	0.00	<u>17</u>
2	WWIS		Guelph ON <i>Well ID</i> : 7285692	W/65.9	0.00	<u>19</u>
3	WWIS		Guelph ON Well ID: 7285693	SSE/68.1	-0.08	<u>22</u>
<u>4</u>	WWIS		ON <i>Well ID</i> : 7209139	NE/72.0	0.22	<u>24</u>
<u>5</u>	WWIS		Guelph ON <i>Well ID:</i> 7285694	NNW/77.4	0.00	<u>25</u>
<u>6</u>	WWIS		lot 6 con 8 ON <i>Well ID:</i> 6702590	SSE/82.5	-0.08	<u>27</u>
7	WWIS		ON <i>Well ID:</i> 7229605	ENE/82.9	1.50	<u>30</u>
<u>8</u>	wwis		lot 6 con 8 ON <i>Well ID</i> : 6712543	NW/94.9	-0.46	<u>31</u>
<u>9</u> .	ECA	The Corporation of the City of Guelph	Part Lots 6 & 7, Conc. 8, Former Twp. of Puslinch Guelph ON N1H 3A1	WNW/99.2	-0.46	<u>34</u>
9	ECA	The Corporation of the City of Guelph	Arkell Rd (from Gordon Street to Victoria Road) Guelph ON N1H 3A1	WNW/99.2	-0.46	<u>34</u>
<u>9</u> *	ECA	The Corporation of the City of Guelph	Arkell Rd (from Gordon Street to Victoria Road) Guelph ON N1H 3A1	WNW/99.2	-0.46	<u>34</u>
<u>10</u>	WWIS		lot 6 con 8 ON	S/114.4	-0.03	<u>35</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			<b>Well ID:</b> 6703579			
<u>11</u>	wwis		Guelph ON <i>Well ID:</i> 7188310	S/142.7	0.33	38
<u>12</u>	wwis		lot 6 con 8 ON <i>Well ID:</i> 6703602	NE/143.8	3.31	<u>41</u>
<u>13</u>	EHS		164 And 174 Arkell Rd Guelph ON <i>Order ID:</i> 219047	SSW/147.0	0.00	<u>43</u>
<u>14</u>	ECA	The Corporation of the City of Guelph	164 Arkell Rd Guelph ON N1H 3A1	SSW/161.5	0.00	<u>43</u>
<u>14</u>	SPL	City of Guelph	164 Arkell Road Guelph ON	SSW/161.5	0.00	<u>43</u>
<u>15</u>	WWIS		GUELPH ON <i>Well ID:</i> 7163099	NE/168.5	5.01	<u>44</u>
<u>16</u>	wwis		lot 6 con 8 ON <i>Well ID</i> : 6704985	SSW/168.8	0.00	<u>46</u>
<u>17</u>	SPL		25 coutts court Guelph ON	ESE/178.8	3.00	<u>49</u>
<u>18</u>	WWIS		lot 6 con 8 GUELPH ON <i>Well ID</i> : 7211048	SE/194.9	3.00	<u>49</u>
<u>19</u>	PINC		14 AMOS DR, GUELPH ON	NE/208.7	7.03	<u>51</u>
<u>19</u>	SPL	Union Gas Limited	14 Amos Dr Guelph ON	NE/208.7	7.03	<u>51</u>
<u>20</u>	WWIS		GUELPH ON <i>Well ID:</i> 7163100	ENE/217.7	7.71	<u>52</u>
<u>21</u>	WWIS		lot 7 con 8 GUELPH ON	SE/222.7	2.69	<u>54</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			<b>Well ID:</b> 6715351			
<u>22</u>	EHS		220 Arkell Road Guelph ON	NNW/225.4	3.72	<u>55</u>
			<b>Order ID:</b> 467181			
<u>23</u>	WWIS		lot 7 con 8 ON	SSE/228.6	1.97	<u>56</u>
			<b>Well ID:</b> 6711291			
<u>24</u>	WWIS		lot 7 con 8 ON	SE/235.7	3.00	<u>59</u>
			<b>Well ID</b> : 6714128			
<u>25</u>	WWIS		lot 6 con 8 ON	SW/237.4	0.00	<u>60</u>
			<b>Well ID</b> : 6702585			
<u>26</u>	WWIS		lot 6 con 8 GUELPH ON	NE/241.1	10.43	<u>63</u>
			Well ID: 7211047			

### Executive Summary: Summary By Data Source

#### **ECA** - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Jul 31, 2018 has found that there are 4 ECA site(s) within approximately 0.25 kilometers of the project property.

<b>Equal/Higher Elevation</b>	<u>Address</u>	<u>Direction</u>	Distance (m)	<u>Map Key</u>
The Corporation of the City of Guelph	164 Arkell Rd Guelph ON N1H 3A1	SSW	161.54	<u>14</u>

Lower Elevation  The Corporation of the City of Guelph	Address  Arkell Rd (from Gordon Street to Victoria Road) Guelph ON N1H 3A1	<u>Direction</u> WNW	<b>Distance (m)</b> 99.19	Map Key 9
The Corporation of the City of Guelph	Part Lots 6 & 7, Conc. 8, Former Twp. of Puslinch Guelph ON N1H 3A1	WNW	99.19	9
The Corporation of the City of Guelph	Arkell Rd (from Gordon Street to Victoria Road) Guelph ON N1H 3A1	WNW	99.19	<u>9</u>

#### **EHS** - ERIS Historical Searches

A search of the EHS database, dated 1999-Feb 28, 2018 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of the project property.

<b>Equal/Higher Elevation</b>	<u>Address</u>	<b>Direction</b>	Distance (m)	<u>Map Key</u>
	164 And 174 Arkell Rd Guelph ON	SSW	146.95	<u>13</u>
	Order ID: 219047			
	220 Arkell Road Guelph ON	NNW	225.37	<u>22</u>
	Order ID: 467181			

#### **PINC** - TSSA Pipeline Incidents

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

<b>Equal/Higher Elevation</b>	<u>Address</u>	<b>Direction</b>	Distance (m)	Map Key
	14 AMOS DR, GUELPH ON	NE	208.73	<u>19</u>

#### SPL - Ontario Spills

A search of the SPL database, dated 1988-May 2018 has found that there are 3 SPL site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation City of Guelph	Address 164 Arkell Road Guelph ON	<u>Direction</u> SSW	<u>Distance (m)</u> 161.54	<u>Map Key</u> <u>14</u>
	25 coutts court Guelph ON	ESE	178.84	<u>17</u>
Union Gas Limited	14 Amos Dr Guelph ON	NE	208.73	<u>19</u>

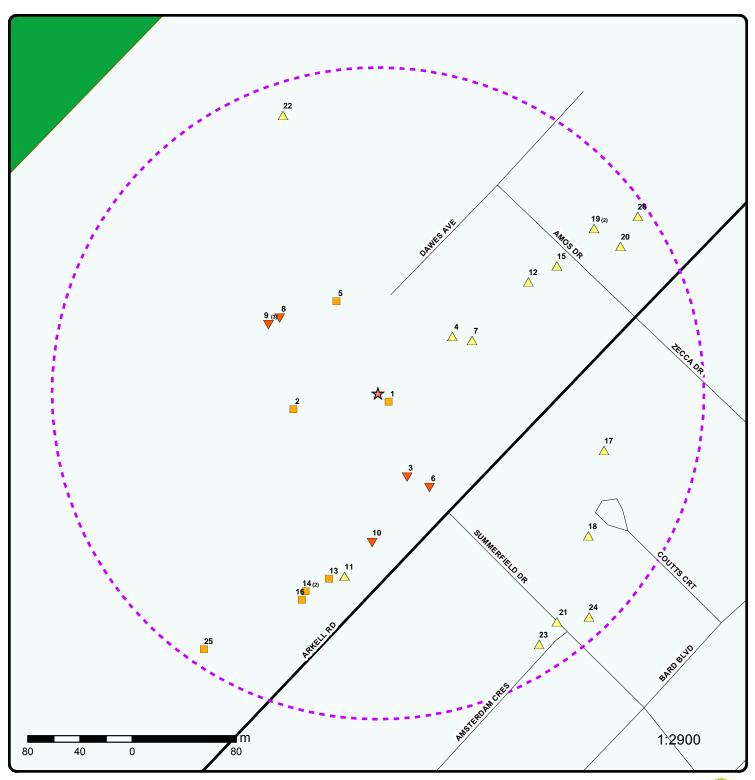
#### **WWIS** - Water Well Information System

A search of the WWIS database, dated Dec 31, 2017 has found that there are 20 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u> SE	<u>Distance (m)</u> 10.44	Map Key	
	Guelph ON	SE	10.44	<u>1</u>	
	<b>Well ID:</b> 7285695				
	Guelph ON  Well ID: 7285692	W	65.89	<u>2</u>	
	ON <i>Well ID:</i> 7209139	NE	72.01	<u>4</u>	
	Guelph ON <i>Well ID:</i> 7285694	NNW	77.43	<u>5</u>	
	ON	ENE	82.92	7	

Equal/Higher Elevation	Address Well ID: 7229605	<u>Direction</u>	Distance (m)	<u>Map Key</u>
	Guelph ON <i>Well ID:</i> 7188310	S	142.70	<u>11</u>
	lot 6 con 8 ON	NE	143.85	<u>12</u>
	Well ID: 6703602			
	GUELPH ON	NE	168.46	<u>15</u>
	<b>Well ID:</b> 7163099			
	lot 6 con 8 ON	SSW	168.80	<u>16</u>
	<b>Well ID:</b> 6704985			
	lot 6 con 8 GUELPH ON	SE	194.86	<u>18</u>
	<b>Well ID:</b> 7211048			
	GUELPH ON	ENE	217.68	<u>20</u>
	<b>Well ID:</b> 7163100			
	lot 7 con 8 GUELPH ON	SE	222.70	<u>21</u>
	<b>Well ID:</b> 6715351			
	lot 7 con 8 ON	SSE	228.64	<u>23</u>
	<b>Well ID:</b> 6711291			
	lot 7 con 8 ON	SE	235.73	<u>24</u>
	<b>Well ID:</b> 6714128			
	lot 6 con 8 ON	SW	237.40	<u>25</u>
	<b>Well ID:</b> 6702585			
	lot 6 con 8 GUELPH ON	NE	241.06	<u>26</u>
	<b>Well ID:</b> 7211047			

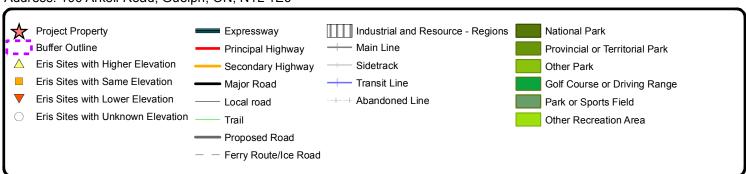
Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance (m)	<u>Map Key</u>
	Guelph ON <i>Well ID:</i> 7285693	SSE	68.11	<u>3</u>
	lot 6 con 8 ON	SSE	82.48	<u>6</u>
	<b>Well ID:</b> 6702590			
	lot 6 con 8 ON	NW	94.92	<u>8</u>
	<b>Well ID:</b> 6712543			
	lot 6 con 8 ON	S	114.45	<u>10</u>
	<b>Well ID:</b> 6703579			

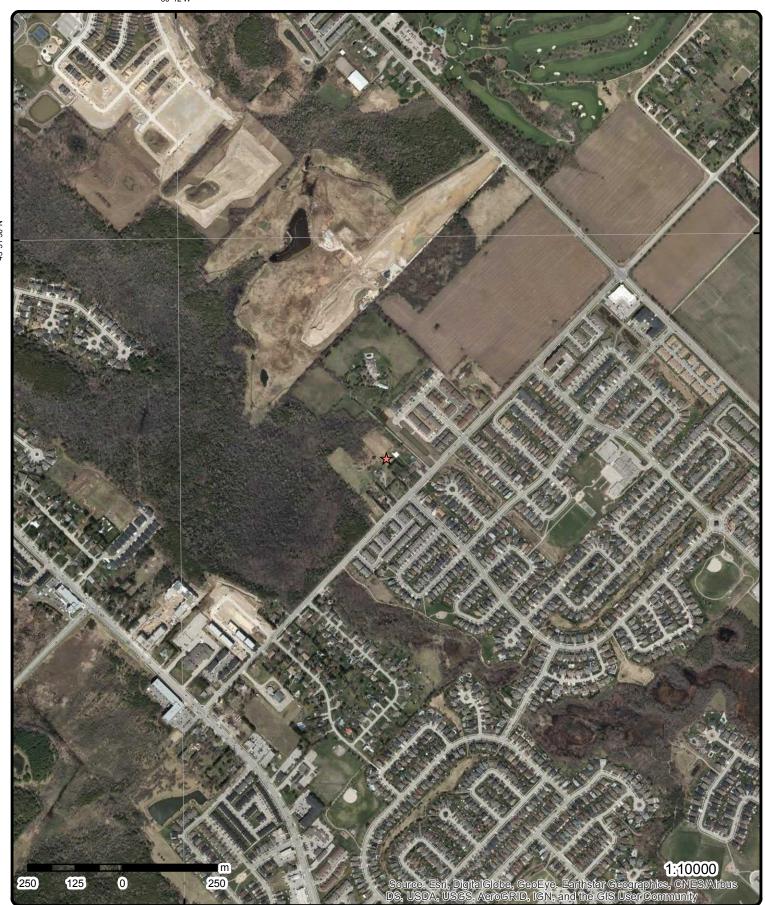


### Map: 0.25 Kilometer Radius

Order No: 20180913184

Address: 190 Arkell Road, Guelph, ON, N1L 1E6





Aerial (2017)

Address: 190 Arkell Road, Guelph, ON, N1L 1E6

Source: ESRI World Imagery



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80°12'W 80°10'30"W Victoria Park Golf Club East Kortright East Subdivision Farnham MacAlister Park Victoria Park Golf Club West of Guelph Road Park Colonial Holland Park. Woods Sources: Esri, HERE, Garmin, Intermap, increment P Corp. GERCO USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnanc1:24000 sri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community 305 0 610

# **Topographic Map**

Address: 190 Arkell Road, Guelph, ON, N1L 1E6

Source: ESRI World Topographic Map



Order No: 20180913184

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# **Detail Report**

Мар Кеу	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
1	1 of 1		SE/10.4	334.9 / 0.00	Guelph ON		WWIS
Well ID: Construction Primary Wat Sec. Water U Final Well St Water Type: Casing Mate Audit No: Tag: Construction Elevation (m Elevation Re Depth to Bet Well Depth: Overburden, Pump Rate: Static Water Flowing (Y/N Flow Rate: Clear/Cloudy	er Use: Use: Use: Use: Use: Use: Use: Use:	7285698 Test Ho Monitori Z25638: A219999	le ng and Test Hole 2		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	4/27/2017 Yes 7320 7 190 ARKELL RD WELLINGTON PUSLINCH TOWNSHIP	
Bore Hole In  Bore Hole II  DP2BR: Spatial Statu Code OB: Code OB De Open Hole: Cluster Kind Date Comple Remarks: Elevrc Desc. Location So Improvement Improvement Source Revi Supplier Code	o: is: sc: l: eted: urce Date: it Location is t Location lision Comm	Wethod:			Elevation: Elevrc: Zone: East83: Org CS: North83: UTMRC: UTMRC Desc: Location Method:	335.04 17 565207 UTM83 4818841 4 margin of error : 30 m - 100 m wwr	
Overburden Materials Int Formation II Layer: Color: General Colo Mat1: Most Comm Mat2:	erval D: or: on Material:		1006690368 2 6 BROWN 28 SAND 11				

Order No: 20180913184

GRAVEL

Mat3:

Other Materials:

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

Other Materials: WATER-BEARING

Formation Top Depth: 4.6
Formation End Depth: 7.6
Formation End Depth UOM: m

**Formation ID:** 1006690367

 Layer:
 1

 Color:
 6

 General Color:
 BROWN

 Mat1:
 28

 Most Common Material:
 SAND

 Mat2:
 11

 Other Materials:
 GRAVEL

Mat3:

Other Materials:
Formation Top Depth:
Formation End Depth:

Formation End Depth UOM:

m

#### Annular Space/Abandonment

Sealing Record

**Plug ID:** 1006690375

 Layer:
 1

 Plug From:
 0

 Plug To:
 .15

 Plug Depth UOM:
 m

**Plug ID:** 1006690376

 Layer:
 2

 Plug From:
 .15

 Plug To:
 5.7

 Plug Depth UOM:
 m

**Plug ID:** 1006690377

 Layer:
 3

 Plug From:
 5.7

 Plug To:
 7.6

 Plug Depth UOM:
 m

#### Method of Construction & Well

<u>Use</u>

Method Construction ID: 1006690374

Method Construction Code: 2

Method Construction: Rotary (Convent.)

Other Method Construction: HSA

#### Pipe Information

**Pipe ID:** 1006690366

Casing No:

Comment: Alt Name:

#### Construction Record - Casing

Casing ID: 1006690371

 Layer:
 1

 Material:
 5

 Open Hole or Material:
 PLASTIC

 Depth From:
 -.7

Мар Кеу	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Depth To:			6.1				
Casing Diam			5.1				
Casing Diameter UOM: Casing Depth UOM:			cm m				
Casing Depu	n oow.		***				
Construction	n Record - S	<u>Screen</u>					
Screen ID:			1006690372				
Layer:			1				
Slot:	Danth.		.01 6.1				
Screen Top I Screen End			7.6				
Screen Mate	•		5				
Screen Dept			m				
Screen Diam			cm				
Screen Diam	eter:		6.1				
Water Details	<u>s</u>						
Water ID:			1006690370				
Layer:			1				
Kind Code:			8				
Kind:			Untested				
Water Found Water Found		n <i>n</i> .	m				
water i ound	г Берит ОО						
Hole Diamete	<u>er</u>						
Hole ID:			1006690369				
Diameter:			21				
Depth From: Depth To:	•		0 7.6				
Hole Depth U	IOM·		m				
Hole Diamete			cm				
2	1 of 1		W/65.9	334.9 / 0.00	Guelph ON		wwis
Well ID:		7285692			Data Entry Status:		
Sec. Water Use:		Test Hole	<b>;</b>		Data Src: Date Received:	4/27/2017	
		Test Hole	<b>)</b>		Selected Flag: Abandonment Rec:	Yes	
					Contractor: Form Version:	7320 7	
Audit No:	nai.	Z250516			Owner:	,	
Tag:		A220009			Street Name:	190 ARKELL ST	
Construction					County:	WELLINGTON	
Elevation (m					Municipality:	PUSLINCH TOWNSHIP	
Elevation Re					Site Info:		
Depth to Bed Well Depth:	arock:				Lot: Concession:		
Overburden/	Bedrock:				Concession Name:		
Pump Rate:					Easting NAD83:		
Static Water	Level:				Northing NAD83:		
Flowing (Y/N	I):				Zone:		
Flow Rate:					UTM Reliability:		
Clear/Cloudy	<b>/</b> :						
Bore Hole In	formation						

Order No: 20180913184

**Bore Hole ID**: 1006384728 **Elevation**: 334.82

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

Elevrc:

East83:

Org CS:

North83:

UTMRC:

**UTMRC Desc:** 

Location Method:

17 565134

UTM83

4818835

margin of error: 30 m - 100 m

Order No: 20180913184

Zone:

DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind:

Date Completed: 14-FEB-17

Remarks:

Elevrc Desc:

Location Source Date:

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

Supplier Comment:

#### Overburden and Bedrock

**Materials Interval** 

**Formation ID:** 1006690151

 Layer:
 2

 Color:
 6

 General Color:
 BROWN

 Mat1:
 28

 Most Common Material:
 SAND

 Mat2:
 11

 Other Materials:
 GRAVEL

Mat3:

Other Materials:

Formation Top Depth: 2.1
Formation End Depth: 7.6
Formation End Depth UOM: m

**Formation ID:** 1006690150

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

#### Annular Space/Abandonment

Sealing Record

**Plug ID:** 1006690158

 Layer:
 1

 Plug From:
 0

 Plug To:
 .3

 Plug Depth UOM:
 m

**Plug ID:** 1006690159

 Layer:
 2

 Plug From:
 .3

 Plug To:
 5.7

 Plug Depth UOM:
 m

**Plug ID:** 1006690160

**Layer:** 3 **Plug From:** 5.7

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

Plug To: 7.6
Plug Depth UOM: m

Method of Construction & Well

<u>Use</u>

Method Construction ID: 1006690157
Method Construction Code: 6

Method Construction: Boring
Other Method Construction: HSA

Pipe Information

**Pipe ID:** 1006690149

Casing No:

Comment: Alt Name:

**Construction Record - Casing** 

**Casing ID:** 1006690154

Layer: 1

 Material:
 5

 Open Hole or Material:
 PLASTIC

 Depth From:
 -.7

 Depth To:
 6.1

 Casing Diameter:
 5.1

 Casing Diameter UOM:
 cm

Casing Diameter UOM: cn Casing Depth UOM: m

**Construction Record - Screen** 

**Screen ID:** 1006690155

 Layer:
 1

 Slot:
 10

 Screen Top Depth:
 6.1

 Screen End Depth:
 7.6

 Screen Material:
 5

 Screen Depth UOM:
 m

 Screen Diameter UOM:
 cm

 Screen Diameter:
 6.1

Water Details

*Water ID:* 1006690153

 Layer:
 1

 Kind Code:
 8

 Kind:
 Untested

 Water Found Depth:
 2.1

 Water Found Depth UOM:
 m

•

Hole Diameter

**Hole ID:** 1006690152

 Diameter:
 21

 Depth From:
 0

 Depth To:
 7.6

 Hole Depth UOM:
 m

 Hole Diameter UOM:
 cm

3 1 of 1 SSE/68.1 334.8 / -0.08 WWIS

*Well ID:* 7285693

Construction Date:
Primary Water Use: Test Hole

Sec. Water Use: Final Well Status: Test Hole

Water Type: Casing Material:

 Audit No:
 Z250515

 Tag:
 A220008

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

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

Data Src:

Date Received: 4/27/2017 Selected Flag: Yes Abandonment Rec: Contractor: 7320

Contractor: 732 Form Version: 7

Owner:

Street Name:190 ARKELL STCounty:WELLINGTONMunicipality:PUSLINCH TOWNSHIP

Municipality: Site Info: Lot: Concession:

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

#### **Bore Hole Information**

**Bore Hole ID:** 1006384731

DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind:

Date Completed: 14-FEB-17

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: Elevation: 335.68

Elevrc:

Zone: 17
East83: 565221
Org CS: UTM83
North83: 4818783
UTMRC: 4

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

Order No: 20180913184

Location Method: wwr

#### Overburden and Bedrock

Materials Interval

**Formation ID:** 1006690235

 Layer:
 1

 Color:
 6

 General Color:
 BROWN

 Mat1:
 28

 Most Common Material:
 SAND

 Mat2:
 11

 Other Materials:
 GRAVEL

 Mat3:
 77

 Other Materials:
 LOOSE

 Formation Top Depth:
 0

 Formation End Depth:
 3.1

 Formation End Depth UOM:
 m

**Formation ID:** 1006690236

 Layer:
 2

 Color:
 6

 General Color:
 BROWN

Mat1:

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

SAND Most Common Material: Mat2: 11

Other Materials:

**GRAVEL** 

Mat3:

Other Materials:

Formation Top Depth: 3.1 Formation End Depth: 7.6 Formation End Depth UOM: m

#### Annular Space/Abandonment

Sealing Record

1006690245 Plug ID:

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

1006690244 Plug ID:

Layer: .3 Plug From: Plug To: 5.7 Plug Depth UOM: m

Plug ID: 1006690243

Layer: Plug From: 0 Plug To: .3 Plug Depth UOM: m

#### Method of Construction & Well

<u>Use</u>

**Method Construction ID:** 1006690242

**Method Construction Code: Method Construction:** Boring Other Method Construction: HSA

#### Pipe Information

Alt Name:

Pipe ID: 1006690234

Casing No: Comment:

#### **Construction Record - Casing**

Casing ID: 1006690239

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

#### Construction Record - Screen

Screen ID: 1006690240

Layer: 10 Slot:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Screen Top Depth: Screen End Depth: Screen Material: Screen Depth UOM: Screen Diameter UOM: Screen Diameter:		6.1 7.6 5 m cm 6.1				
Water Details						
Water ID: Layer: Kind Code: Kind: Water Found Water Found		1006690238 1 8 Untested 3.1 m				
Hole Diamete	<u>r</u>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete		1006690237 21 0 7.6 m cm				
<u>4</u>	1 of 1	NE/72.0	335.1 / 0.22	ON		wwis
Well ID: Construction Primary Wate Sec. Water U. Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation (m) Elevation Rei Depth to Bed Well Depth: Overburden/I Pump Rate: Static Water Flowing (Y/N) Flow Rate: Clear/Cloudy	er Use: se: htus: ial: C21! Method: iability: rock: Bedrock: Level:			Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	Yes  10/3/2013 Yes  7282 8  WELLINGTON PUSLINCH TOWNSHIP	
Bore Hole Int DP2BR: Spatial Status Code OB: Code OB Des Open Hole: Cluster Kind: Date Comple Remarks: Elevrc Desc: Location Sou	1004 s: c: ted: 13-J	.596557 UN-13		Elevation: Elevrc: Zone: East83: Org CS: North83: UTMRC: UTMRC Desc: Location Method:	335.43 17 565256 UTM83 4818891 4 margin of error : 30 m - 100 m wwr	

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

5 1 of 1 NNW/77.4 334.9 / 0.00 **WWIS Guelph ON** 

Well ID: 7285694

Construction Date:

Primary Water Use: Test Hole

Sec. Water Use:

Final Well Status: Monitoring and Test Hole

Water Type: Casing Material:

Audit No: Z256381 Tag: A219997

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

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

Data Entry Status:

Data Src:

Date Received: 4/27/2017 Selected Flag: Yes

Abandonment Rec:

Contractor: 7320 Form Version:

Owner:

Street Name: 190 ARKELL RD WELLINGTON County: Municipality: **PUSLINCH TOWNSHIP** 

Site Info: I of Concession: Concession Name: Easting NAD83:

Northing NAD83: Zone:

UTM Reliability:

**Bore Hole Information** 

Bore Hole ID: 1006384734

DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind:

Date Completed: 21-MAR-17

Remarks: Elevrc Desc:

Location Source Date:

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

Supplier Comment:

Elevation: 334.76 Elevrc:

Zone: 17 East83: 565167 UTM83 Org CS: North83: 4818918

**UTMRC:** 

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

Order No: 20180913184

Location Method:

Overburden and Bedrock

Materials Interval

Formation ID: 1006690279

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

Mat2: 11 **GRAVEL** Other Materials:

Mat3:

Other Materials:

0 Formation Top Depth: Formation End Depth: 4.6 Formation End Depth UOM:

**Formation ID:** 1006690280

 Layer:
 2

 Color:
 6

 General Color:
 BROWN

 Mat1:
 28

 Most Common Material:
 SAND

 Mat2:
 11

 Other Materials:
 GRAVEL

**Mat3:** 91

Other Materials: WATER-BEARING

Formation Top Depth: 4.6
Formation End Depth: 7.6
Formation End Depth UOM: m

#### Annular Space/Abandonment

Sealing Record

**Plug ID:** 1006690289

 Layer:
 3

 Plug From:
 5.7

 Plug To:
 7.6

 Plug Depth UOM:
 m

**Plug ID:** 1006690288

 Layer:
 2

 Plug From:
 .15

 Plug To:
 5.7

 Plug Depth UOM:
 m

**Plug ID:** 1006690287

 Layer:
 1

 Plug From:
 0

 Plug To:
 .15

 Plug Depth UOM:
 m

# Method of Construction & Well

<u>Use</u>

Method Construction ID: 1006690286

Method Construction Code: 2

Method Construction: Rotary (Convent.)

Other Method Construction: HSA

### Pipe Information

**Pipe ID:** 1006690278

Casing No:

Comment: Alt Name:

# Construction Record - Casing

Casing ID: 1006690283

Layer: 1 Material: 5

#### **Construction Record - Screen**

Screen ID: 1006690284

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

#### Water Details

Water ID: 1006690282

Layer: Kind Code: Kind:

Water Found Depth:

Water Found Depth UOM: m

#### **Hole Diameter**

Hole ID: 1006690281

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

SSE/82.5 1 of 1 334.8 / -0.08 lot 6 con 8 6 **WWIS** ON

6702590 Well ID: **Construction Date:** 

Primary Water Use: Domestic

Sec. Water Use:

Final Well Status: Water Supply

Water Type: Casing Material: Audit No:

Tag: **Construction Method:** 

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

Overburden/Bedrock: Pump Rate: Static Water Level:

Flowing (Y/N): Flow Rate:

Clear/Cloudy:

Data Entry Status:

Data Src:

Date Received: 11/9/1962 Selected Flag: Yes

Abandonment Rec:

Contractor: 2414 Form Version: 1

Owner: Street Name:

WELLINGTON County:

Municipality: **GUELPH CITY (PUSLINCH TWP)** Site Info:

CON

Order No: 20180913184

006 Lot: Concession: 80

Concession Name: Easting NAD83: Northing NAD83:

Zone:

UTM Reliability:

### **Bore Hole Information**

Bore Hole ID: 10466733 Elevation: 335.98

Elevrc: DP2BR:

Spatial Status: Zone: 17 Code OB: East83: 565238.3

Code OB Desc: Overburden Org CS:

North83:

**UTMRC**:

UTMRC Desc:

Location Method:

4818775

margin of error: 100 m - 300 m

Order No: 20180913184

Open Hole: Cluster Kind:

Date Completed: Remarks:

24-OCT-62

Elevrc Desc:

Location Source Date:

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

Overburden and Bedrock

**Materials Interval** 

Formation ID: 932614469

Layer:

Color:

General Color:

Mat1: 23

Most Common Material: PREVIOUSLY DUG

Mat2:

Other Materials:

Mat3:

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

Formation ID: 932614471

Layer: 3 Color: 2 General Color: **GREY** Mat1: 14 **HARDPAN** 

Most Common Material:

Mat2:

Other Materials:

Mat3:

Other Materials:

34 Formation Top Depth: Formation End Depth: 45 Formation End Depth UOM: ft

Formation ID: 932614470

Layer: 2 Color: 6 **BROWN** General Color: Mat1: 05 Most Common Material: CLAY Mat2: 11 Other Materials: **GRAVEL** 

Mat3:

Other Materials:

Formation Top Depth: 9 34 Formation End Depth: Formation End Depth UOM: ft

Formation ID: 932614473

Layer:

Color:

General Color:

Mat1:

Most Common Material: **GRAVEL** 

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 58 65 Formation End Depth: Formation End Depth UOM: ft

932614472 Formation ID:

Layer:

Color:

General Color:

Mat1: 80

Most Common Material: **FINE SAND** Mat2: **GRAVEL** 

Other Materials:

Mat3: Other Materials:

Formation Top Depth: 45 Formation End Depth: 58 Formation End Depth UOM: ft

Method of Construction & Well

<u>Use</u>

966702590 **Method Construction ID:** 

**Method Construction Code:** 

**Method Construction:** Cable Tool

Other Method Construction:

Pipe Information

Pipe ID: 11015303

Casing No: Comment: Alt Name:

**Construction Record - Casing** 

Casing ID: 930759062

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

Depth From:

Depth To: 60 Casing Diameter: 4 Casing Diameter UOM: inch Casing Depth UOM: ft

Casing ID: 930759061

Layer:

Material:

Open Hole or Material:

Depth From: 5 Depth To:

Casing Diameter:

Casing Diameter UOM: inch Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996702590

Pump Set At:

Static Level: 16 Final Level After Pumping: 20

Number of Direction/ Elev/Diff Site DΒ Map Key Records Distance (m) (m) Recommended Pump Depth: 30 Pumping Rate: 10 Flowing Rate: Recommended Pump Rate: 8 Levels UOM: **GPM** Rate UOM: Water State After Test Code: **CLEAR** Water State After Test: Pumping Test Method: **Pumping Duration HR:** 2 0 **Pumping Duration MIN:** Flowing: Water Details Water ID: 933954930 Layer: Kind Code: **FRESH** Kind: Water Found Depth: 65

7 1 of 1 ENE/82.9 336.4 / 1.50 WWIS

ft

Sec. Water Use:
Selected Flag:
Final Well Status:
Water Type:
Contractor:
6607

 Casing Material:
 Form Version:
 8

 Audit No:
 C23988
 Owner:

 Tag:
 A126174
 Street Name:

Construction Method:

Elevation (m):

Elevation Reliability:
Depth to Bedrock:

Well Depth:

County:
Municipality:
PUSLINCH TOWNSHIP

Site Info:
Lot:
Concession:

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

Flow Rate: UTM Reliability: Clear/Cloudy:

**Bore Hole Information** 

Water Found Depth UOM:

 Bore Hole ID:
 1005164294
 Elevation:
 335.8

 DP2BR:
 Elevrc:

Date Completed: 13-AUG-14 UTMRC Desc: margin of error : 30 m - 100 m

Order No: 20180913184

Remarks: Location Method: wwr

Elevrc Desc:
Location Source Date:

Source Revision Comment:

Supplier Comment:

Improvement Location Source: Improvement Location Method:

8 1 of 1 NW/94.9 334.4 / -0.46 lot 6 con 8 ON WWIS

WELLINGTON

Order No: 20180913184

Well ID: 6712543 Data Entry Status:
Construction Date: Data Src: 1

Primary Water Use:DomesticDate Received:6/8/1998Sec. Water Use:Selected Flag:Yes

Final Well Status: Water Supply Abandonment Rec:

 Water Type:
 Contractor:
 2336

 Casing Material:
 Form Version:
 1

 Audit No:
 187626
 Owner:

Tag: Street Name: Construction Method: County:

Elevation (m):Municipality:PUSLINCH TOWNSHIPElevation Reliability:Site Info:

 Depth to Bedrock:
 Lot:
 006

 Well Depth:
 Concession:
 08

 Overburden/Bedrock:
 Concession Name:
 CON

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

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

Bore Hole Information

 Bore Hole ID:
 10476376
 Elevation:
 334.66

 DP2BR:
 39
 Elevrc:

 Spatial Status:
 Zone:
 17

 Code OB:
 r
 East83:
 565123.3

 Code OB Desc:
 Bedrock
 Org CS:

 Open Hole:
 North83:
 4818905

 Cluster Kind:
 UTMRC:
 9

Date Completed: 21-MAY-98 UTMRC Desc: unknown UTM

Remarks: Location Method: lot
Elevrc Desc:
Location Source Date:

Overburden and Bedrock Materials Interval

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

**Formation ID:** 932657688

 Layer:
 4

 Color:
 2

 General Color:
 GREY

 Mat1:
 26

 Most Common Material:
 ROCK

Most Common Material: Mat2:

Other Materials:

Other Materials:

Mat3:

Formation Top Depth: 55
Formation End Depth: 80
Formation End Depth UOM: ft

**Formation ID:** 932657686

 Layer:
 2

 Color:
 6

General Color: BROWN Mat1: 28

Most Common Material:SANDMat2:11Other Materials:GRAVEL

Mat3:

Other Materials:

Formation Top Depth: 30 Formation End Depth: 39 Formation End Depth UOM: ft

**Formation ID:** 932657685

 Layer:
 1

 Color:
 6

 General Color:
 BROWN

 Mat1:
 28

 Most Common Material:
 SAND

 Mat2:
 12

 Other Materials:
 STONES

Mat3:

Other Materials:

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

**Formation ID:** 932657687

 Layer:
 3

 Color:
 6

 General Color:
 BROWN

 Mat1:
 26

 Most Common Material:
 ROCK

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 39
Formation End Depth: 55
Formation End Depth UOM: ft

### Annular Space/Abandonment

Sealing Record

**Plug ID:** 933210822

 Layer:
 1

 Plug From:
 0

 Plug To:
 25

 Plug Depth UOM:
 ft

# Method of Construction & Well

<u>Use</u>

Method Construction ID: 966712543

Method Construction Code: 4

Method Construction: Rotary (Air)

Other Method Construction:

### **Pipe Information**

**Pipe ID:** 11024946

Casing No:

Comment: Alt Name:

### **Construction Record - Casing**

**Casing ID:** 930776088

Layer: 1
Material: 1

Open Hole or Material: STEEL

Depth From:

Depth To:42Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

**Casing ID:** 930776089

Layer: 2 Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To:80Casing Diameter:6Casing Diameter UOM:inchCasing Depth UOM:ft

#### Results of Well Yield Testing

**Pump Test ID:** 996712543

Pump Set At:

Static Level: 10
Final Level After Pumping: 50
Recommended Pump Depth: 70
Pumping Rate: 10
Flowing Rate:

Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1

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

### **Draw Down & Recovery**

Pump Test Detail ID:934617298Test Type:Draw Down

 Test Duration:
 30

 Test Level:
 46

 Test Level UOM:
 ft

Pump Test Detail ID:934869129Test Type:Draw Down

 Test Duration:
 45

 Test Level:
 50

 Test Level UOM:
 ft

Pump Test Detail ID: 934352296
Test Type: Draw Down

 Test Duration:
 15

 Test Level:
 32

 Test Level UOM:
 ft

Pump Test Detail ID:935138943Test Type:Draw Down

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Test Duration Test Level: Test Level U		;	60 50 ft				
Water Detail	<u>s</u>						
Water ID: Layer: Kind Code: Kind: Water Found Water Found	•		933966957 1 1 1 FRESH 75 ft				
9	1 of 3		WNW/99.2	334.4 / -0.46	The Corporation of a Part Lots 6 & 7, Con Puslinch Guelph ON N1H 3A1	nc. 8, Former Twp. of	ECA
Approval No Approval Da Status: Record Type Link Source: Approval Type Address: Full Address Full PDF Lin	te: :: pe: ::	1		ate Water Works		Grand River Guelph -80.1943 43.5202	
9	2 of 3		WNW/99.2	334.4 / -0.46	The Corporation of a Arkell Rd (from Gore Guelph ON N1H 3A1	don Street to Victoria Road)	ECA
Approval No Approval Da Status: Record Type Link Source: Approval Type Project Type Address: Full Address Full PDF Line	te: e: : pe: e:		7 ECA-MUNICIPAL A MUNICIPAL AND F Arkell Rd (from Gol	PRIVATE SEWAG don Street to Victor	E WORKS	Grand River Guelph Guelph -80.1943 43.5202	
9	3 of 3		WNW/99.2	334.4 / -0.46	The Corporation of Arkell Rd (from Gord Guelph ON N1H 3A1	don Street to Victoria Road)	ECA
Approval No Approval Da Status: Record Type Link Source: Approval Type Address: Full Address Full PDF Lin	te: e: : pe: e:		7 ECA-MUNICIPAL A MUNICIPAL AND F Arkell Rd (from Gol	PRIVATE SEWAG don Street to Victor	E WORKS	Grand River Guelph Guelph -80.1943 43.5202	

Order No: 20180913184

10 1 of 1 S/114.4 334.8/-0.03 lot 6 con 8 WWIS

Well ID: 6703579

Construction Date:

Primary Water Use: Domestic

Sec. Water Use:

Final Well Status: Water Supply

Water Type: Casing Material: Audit No: Tag:

Construction Method: Elevation (m): Elevation Reliability:

Depth to Bedrock: Well Depth:

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

Data Src: 1

Date Received: 10/22/1969
Selected Flag: Yes

Selected Flag: Abandonment Rec:

Contractor: 2414 Form Version: 1

Owner: Street Name:

County: WELLINGTON

Municipality: PUSLINCH TOWNSHIP

Site Info:

 Lot:
 006

 Concession:
 08

 Concession Name:
 CON

Easting NAD83: Northing NAD83: Zone: UTM Reliability:

**Bore Hole Information** 

**Bore Hole ID:** 10467714 **DP2BR:** 70

Spatial Status:

Code OB:

Code OB Desc: Bedrock

Open Hole:

Cluster Kind:

Date Completed: 27-SEP-69

Remarks: Elevrc Desc:

Location Source Date:

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

Supplier Comment:

Elevation: 335.74

Elevrc:

**Zone:** 17

**East83**: 565194.3

Org CS:

*North83:* 4818733

UTMRC:

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

Order No: 20180913184

Location Method: p4

Overburden and Bedrock

Materials Interval

**Formation ID:** 932618536

Layer: 6
Color: 6

General Color: BROWN
Mat1: 26
Most Common Material: ROCK

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 70
Formation End Depth: 93
Formation End Depth UOM: ft

**Formation ID:** 932618535

**Layer:** 5 **Color:** 6

General Color: BROWN Mat1: 05

Most Common Material: CLAY Mat2: 11

Other Materials: GRAVEL

Mat3:

Other Materials:
Formation Top Depth: 55
Formation End Depth: 70
Formation End Depth UOM: ft

**Formation ID:** 932618531

Layer:

Color:

General Color:

Mat1: 23

Most Common Material: PREVIOUSLY DUG

1

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 0
Formation End Depth: 9
Formation End Depth UOM: ft

**Formation ID:** 932618533

 Layer:
 3

 Color:
 6

 General Color:
 BROWN

 Mat1:
 09

Most Common Material: MEDIUM SAND

Mat2:

Other Materials: Mat3: Other Materials:

Formation Top Depth: 15
Formation End Depth: 25
Formation End Depth UOM: ft

**Formation ID:** 932618532

**Layer:** 2 **Color:** 6

General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12

Other Materials: 12 STONES

Mat3:

Other Materials:
Formation Top Depth: 9
Formation End Depth: 15
Formation End Depth UOM: ft

**Formation ID:** 932618534

 Layer:
 4

 Color:
 6

 General Color:
 BROWN

 Mat1:
 05

 Most Common Material:
 CLAY

 Mat2:
 09

Other Materials: MEDIUM SAND

Mat3:11Other Materials:GRAVELFormation Top Depth:25Formation End Depth:55Formation End Depth UOM:ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 966703579

Method Construction Code: 1

Method Construction: Cable Tool

Other Method Construction:

Pipe Information

**Pipe ID:** 11016284

Casing No:

Comment: Alt Name:

Construction Record - Casing

**Casing ID:** 930760898

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

Depth From:

Depth To: 72
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Casing ID: 930760899

Layer: 2

Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To: 93

Casing Diameter:

Casing Diameter UOM: inch Casing Depth UOM: ft

Results of Well Yield Testing

**Pump Test ID:** 996703579

Pump Set At:

Static Level:6Final Level After Pumping:15Recommended Pump Depth:30Pumping Rate:10

Flowing Rate:

Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM

Water State After Test Code:

Water State After Test:

CLEAR

Pumping Test Method:

Pumping Duration HR:

Pumping Duration MIN:

O

Flowing:

N

Draw Down & Recovery

Pump Test Detail ID:934604748Test Type:RecoveryTest Duration:30Test Level:6

Test Level UOM:

 Pump Test Detail ID:
 934345758

 Test Type:
 Recovery

 Test Duration:
 15

 Test Level:
 6

 Test Level UOM:
 ft

ft

 Pump Test Detail ID:
 934858518

 Test Type:
 Recovery

 Test Duration:
 45

 Test Level:
 6

 Test Level UOM:
 ft

 Pump Test Detail ID:
 935123311

 Test Type:
 Recovery

 Test Duration:
 60

 Test Level:
 6

 Test Level UOM:
 ft

Water Details

 Water ID:
 933956070

 Layer:
 1

 Kind Code:
 1

 Kind:
 FRESH

 Water Found Depth:
 93

 Water Found Depth UOM:
 ft

11 1 of 1 S/142.7 335.2 / 0.33 WWIS

Well ID: 7188310 Data Entry Status:

Construction Date: Data Src:

Primary Water Use:MonitoringDate Received:9/27/2012Sec. Water Use:Selected Flag:YesFinal Well Status:Observation WellsAbandonment Rec:

Water Type: Contractor: 6607
Casing Material: Form Version: 7

 Audit No:
 Z147899
 Owner:

 Tag:
 A134137
 Street Name:
 176 ARKELL RD

 Construction Method:
 County:
 WELLINGTON

Construction Method: County: WELLINGTON

Elevation (m): Municipality: PUSLINCH TOWNSHIP

Elevation Reliability: Site Info:

Depth to Bedrock: Lot:

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

Flow Rate: UTM Reliability: Clear/Cloudy:

**Bore Hole Information** 

**Bore Hole ID:** 1004168811 **Elevation:** 335.28

 DP2BR:
 Elevrc:

 Spatial Status:
 Zone:
 17

 Code OB:
 East83:
 565173

 Code OB Desc:
 Org CS:
 UTM83

 Open Hole:
 North83:
 4818707

 Open Hole:
 North83:
 481

 Cluster Kind:
 UTMRC:
 4

Date Completed: 05-SEP-12 UTMRC Desc: margin of error : 30 m - 100 m

Order No: 20180913184

Map Key Number of Direction/ Elev/Diff Site DB

Location Method:

wwr

Records Distance (m) (m)

Remarks: Elevrc Desc:

Location Source Date:

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

Supplier Comment:

Overburden and Bedrock Materials Interval

**Formation ID:** 1004465655

Layer: 2

Color:

General Color:

Mat1:28Most Common Material:SANDMat2:11Other Materials:GRAVEL

Mat3:

Other Materials:
Formation Top Depth: 2
Formation End Depth: 10
Formation End Depth UOM: ft

**Formation ID:** 1004465656

Layer: 3

Color:

General Color:

Mat1: 28 Most Common Material: SAND

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 10
Formation End Depth: 17.5
Formation End Depth UOM: ft

**Formation ID:** 1004465654

FILL

Layer: 1 Color: 6

 General Color:
 BROWN

 Mat1:
 06

 Most Common Material:
 SILT

 Mat2:
 01

Other Materials:

Mat3:

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

Annular Space/Abandonment

Sealing Record

**Plug ID:** 1004465663

 Layer:
 1

 Plug From:
 0

 Plug To:
 6.5

 Plug Depth UOM:
 ft

**Plug ID:** 1004465664

Layer: 2

 Plug From:
 6.5

 Plug To:
 17.5

 Plug Depth UOM:
 ft

# Method of Construction & Well

<u>Use</u>

Method Construction ID: 1004465662

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

### Pipe Information

**Pipe ID:** 1004465653

0

Casing No: Comment: Alt Name:

### **Construction Record - Casing**

Casing ID: 1004465659

 Layer:
 1

 Material:
 5

 Open Hole or Material:
 PLASTIC

 Depth From:
 0

 Depth To:
 7.5

 Casing Diameter:
 5.1

Casing Diameter:5.1Casing Diameter UOM:inchCasing Depth UOM:ft

### **Construction Record - Screen**

**Screen ID:** 1004465660

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

#### Water Details

*Water ID*: 1004465658

Layer: 1
Kind Code:

Kind:

Water Found Depth: 10
Water Found Depth UOM: ft

### Hole Diameter

**Hole ID:** 1004465657

 Diameter:
 8

 Depth From:
 0

 Depth To:
 17.5

 Hole Depth UOM:
 ft

 Hole Diameter UOM:
 inch

12 1 of 1 NE/143.8 338.2 / 3.31 lot 6 con 8 WWIS

Well ID: 6703602

Construction Date: Primary Water Use:

Domestic

Sec. Water Use: Final Well Status:

0 Water Supply

Water Type: Casing Material:

Audit No:
Tag:

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

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

Data Src:

Date Received: 2/10/1970
Selected Flag: Yes
Abandonment Rec:
Contractor: 2414

Form Version: Owner: Street Name:

County: WELLINGTON

Municipality: PUSLINCH TOWNSHIP

1

Site Info:

 Lot:
 006

 Concession:
 08

 Concession Name:
 CON

Easting NAD83: Northing NAD83: Zone: UTM Reliability:

### **Bore Hole Information**

**Bore Hole ID:** 10467737 **DP2BR:** 83

Spatial Status:

Code OB:

Code OB Desc: Bedrock

Open Hole: Cluster Kind:

Date Completed: 08-JAN-70

Remarks: Elevrc Desc:

Location Source Date:

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: East83: Org CS:

Org CS:

Elevation:

Elevrc:

Zone:

**North83**: 4818933 **UTMRC**: 4

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

17

337.8

565314.3

Location Method: p

### Overburden and Bedrock

**Materials Interval** 

**Formation ID:** 932618626

**Layer:** 3 **Color:** 6

General Color: BROWN Mat1: 15

Most Common Material: LIMESTONE

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 83
Formation End Depth: 124
Formation End Depth UOM: ft

**Formation ID:** 932618625

Layer: Color:

General Color:

05 Mat1: Most Common Material: CLAY Mat2: 12 Other Materials: **STONES** Mat3: **GRAVEL** Other Materials: Formation Top Depth: 6 Formation End Depth: 83 Formation End Depth UOM: ft

Formation ID: 932618624

Layer: Color:

General Color:

Mat1: 01 FILL

Most Common Material:

Mat2:

Other Materials:

Mat3:

Other Materials:

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

### Method of Construction & Well

<u>Use</u>

966703602 **Method Construction ID: Method Construction Code: Method Construction:** Cable Tool

Other Method Construction:

### Pipe Information

Pipe ID: 11016307 Casing No: Comment:

Alt Name:

### **Construction Record - Casing**

930760943 Casing ID:

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

Depth From:

Depth To: 86 Casing Diameter: 4 Casing Diameter UOM: inch Casing Depth UOM: ft

930760944 Casing ID:

Layer: 2 Material:

**OPEN HOLE** Open Hole or Material:

Depth From:

Depth To: 124

Casing Diameter:

Casing Diameter UOM: inch Casing Depth UOM: ft

# Results of Well Yield Testing

Order No: 20180913184

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Pump Test IL Pump Set At. Static Level: Final Level A Recommend Pumping Rate Flowing Rate Recommend Levels UOM: Water UOM: Water State A Pumping Tes Pumping Dui Pumping Dui Flowing:	: fter Pumpin ed Pump De te: o: ed Pump Ra After Test Co After Test: ot Method: ration HR:	epth: nte:	996703602 23 70 80 8 8 ft GPM 2 CLOUDY 2 1 0 N				
Water Details Water ID:	5		933956094 1				
Layer: Kind Code: Kind: Water Found Water Found		1:	1 FRESH 120 ft				
<u>13</u>	1 of 1		SSW/147.0	334.9 / 0.00	164 And 174 Arkell Rd Guelph ON		EHS
Order ID: Order No: Customer ID: Company ID: Status: Report Code Report Type: Report Requirement Inter Previous Site Additional In	: ested by: section: e Name:	24-AUG-	Select Report		Date Received: Lot/Building Size: Municipality: Client Prov/State: Search Radius (km): Large Radius: X: Y:	21-AUG-12  ON .25 2 -80.193745 43.518442	
14	1 of 2		SSW/161.5	334.9 / 0.00	The Corporation of the 164 Arkell Rd Guelph ON N1H 3A1	City of Guelph	ECA
Approval No. Approval Dat Status: Record Type Link Source: Approval Typ Project Type Address: Full Address Full PDF Link	te: : : : :	7075-5V\ 2004-02- Approved ECA IDS	05 I	nking Water Systems Water Systems	SWP Area Name: MOE District: City: Longitude: Latitude:		
14	2 of 2		SSW/161.5	334.9 / 0.00	City of Guelph 164 Arkell Road		SPL

Order No: 20180913184

Number of Direction/ Elev/Diff Site Map Key

Records

Distance (m)

(m)

**Guelph ON** 

Ref No: 0325-ANCMS4

Site No: Incident Dt:

6/14/2017

Land

6/15/2017

Year: Incident Cause:

Leak/Break Incident Event:

Contaminant Code:

Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED)

Contaminant Limit 1: Contam Limit Freq 1:

Contaminant UN No 1: n/a 0 other - see incident description

Contaminant Qty: **Environment Impact:** Nature of Impact:

Receiving Medium: Receiving Env: Health/Env Conseq:

MOE Response: Dt MOE Arvl on Scn:

MOE Reported Dt:

**Dt Document Closed:** Agency Involved: SAC Action Class:

Incident Reason:

Incident Summary:

15

Unknown / N/A

NE/168.5

2 - Minor Environment

C of Guelph: engine oil to land,

339.9 / 5.01

Discharger Report: Material Group:

Client Type: Municipal Government Sector Type: Miscellaneous Industrial Other

Source Type:

Nearest Watercourse: Site Name:

Burke Well - Spill Site<UNOFFICIAL> Site Address: 164 Arkell Road

Site District Office: Guelph

County of Wellington Site County/District:

Site Postal Code:

Site Region: Site Municipality: Site Lot: Site Conc:

Northing: Easting:

Site Geo Ref Accu: Site Geo Ref Meth: Site Map Datum:

**WWIS GUELPH ON** 

5/13/2011

246 ARKELL RD

WELLINGTON

**GUELPH CITY** 

Yes

7238

7

West Central

Guelph

Well ID: 7163099

Construction Date: Primary Water Use: Sec. Water Use:

Final Well Status: Test Hole Water Type:

Casing Material:

Audit No: Z129152 A109401 Tag:

1 of 1

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

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

Data Entry Status: Data Src:

Date Received: Selected Flag: Abandonment Rec:

Contractor: Form Version:

Owner:

Street Name: County: Municipality: Site Info:

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

UTM Reliability:

**Bore Hole Information** 

Bore Hole ID: 1003509262 DP2BR:

Spatial Status: Code OB: Code OB Desc: Open Hole:

Cluster Kind: Date Completed: 25-APR-11 Elevation: 338.91 Elevrc:

Zone: 17 East83: 565336 Org CS: UTM83 North83: 4818945

UTMRC:

UTMRC Desc: margin of error: 10 - 30 m

Order No: 20180913184

DΒ

Location Method: Remarks: wwr

Elevrc Desc:

Location Source Date:

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

Supplier Comment:

### Overburden and Bedrock **Materials Interval**

Formation ID: 1003821494

Layer: Color: 6

**BROWN** General Color: Mat1: 13

Most Common Material: **BOULDERS** Mat2: 11 Other Materials: **GRAVEL** Mat3: 73 HARD Other Materials: Formation Top Depth: 0 Formation End Depth: 3.05 Formation End Depth UOM: m

1003821495 Formation ID:

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

# Annular Space/Abandonment

Formation End Depth UOM:

Sealing Record

1003821502 Plug ID:

Layer: Plug From: 0 2.44 Plug To: Plug Depth UOM:

#### Method of Construction & Well

<u>Use</u>

1003821500 **Method Construction ID:** 

**Method Construction Code:** Ε **Method Construction:** Auger

Other Method Construction:

# Pipe Information

Pipe ID: 1003821493

Casing No:

Comment: Alt Name:

### **Construction Record - Casing**

Casing ID: 1003821498

Layer: 1 Material: 5

 Open Hole or Material:
 PLASTIC

 Depth From:
 0

 Depth To:
 3.05

 Casing Diameter:
 5.1

 Casing Diameter UOM:
 cm

 Casing Depth UOM:
 m

#### Construction Record - Screen

**Screen ID:** 1003821499

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

#### Water Details

*Water ID:* 1003821497

Layer: Kind Code: Kind: 1000021407

Water Found Depth:
Water Found Depth UOM:

#### Hole Diameter

Hole ID: 1003821496

 Diameter:
 21

 Depth From:
 0

 Depth To:
 6.1

 Hole Depth UOM:
 m

 Hole Diameter UOM:
 cm

16 1 of 1 SSW/168.8 334.9 / 0.00 lot 6 con 8 ON WWIS

Well ID: 6704985

Construction Date: Primary Water Use: Sec. Water Use:

Final Well Status: Test Hole

Water Type:
Casing Material:

Audit No: Tag:

Construction Method: Elevation (m):

Elevation Reliability: Depth to Bedrock: Well Depth:

Overburden/Bedrock: Pump Rate:

Data Entry Status:

Data Src:

**Date Received:** 2/25/1974 **Selected Flag:** Yes

Abandonment Rec:

Contractor: 2336 Form Version: 1

Owner: Street Name:

County: WELLINGTON
Municipality: PUSLINCH TOWNSHIP

Site Info:

 Lot:
 006

 Concession:
 08

 Concession Name:
 CON

Easting NAD83:

Map Key Number of Direction/ Elev/Diff Site DB

Records Distance (m) (m)

Static Water Level:

Flowing (Y/N):

Flow Rate:

Northing NAD83:
Zone:
UTM Reliability:

**Bore Hole Information** 

Clear/Cloudy:

**Bore Hole ID:** 10469087 **Elevation:** 334.99

 DP2BR:
 Elevrc:

 Spatial Status:
 Zone:
 17

 Code OB:
 0
 East83:
 565140.3

 Code OB:
 0
 East83:
 565140.3

 Code OB Desc:
 Overburden
 Org CS:

 Open Hole:
 North83:
 4818689

 Cluster Kind:
 UTMRC:
 4

 Date Completed:
 24-JAN-74
 UTMRC Desc:
 margin of error : 30 m - 100 m

Remarks: Location Method: p4

Elevrc Desc:
Location Source Date:
Improvement Location Source:

Overburden and Bedrock

Improvement Location Method: Source Revision Comment: Supplier Comment:

Materials Interval

**Formation ID:** 932624410

 Layer:
 1

 Color:
 6

 General Color:
 BROWN

 Mat1:
 11

 CRANGE
 CRANGE

Most Common Material:GRAVELMat2:01

Other Materials: FILL

Mat3:

Other Materials:

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

**Formation ID:** 932624413

 Layer:
 4

 Color:
 6

 General Color:
 BROWN

 Mat1:
 05

 Most Common Material:
 CLAY

 Mat2:
 12

Other Materials: STONES

Mat3:

Other Materials:

Formation Top Depth: 18
Formation End Depth: 20
Formation End Depth UOM: ft

**Formation ID:** 932624412

Layer: 3 Color: 6 General Color: **BROWN** Mat1: 11 Most Common Material: **GRAVEL** Mat2: 28 SAND Other Materials: 05 Mat3:

Order No: 20180913184

CLAY

Other Materials:

Formation Top Depth: 6 Formation End Depth: 18 Formation End Depth UOM: ft

Formation ID: 932624411

Layer: Color: 6 **BROWN** General Color: 02 Mat1: **TOPSOIL** 

Most Common Material:

Mat2:

Other Materials:

Mat3:

Other Materials: Formation Top Depth: 4 6 Formation End Depth: Formation End Depth UOM:

### Method of Construction & Well

<u>Use</u>

Method Construction ID: 966704985

**Method Construction Code:** 

**Method Construction:** Cable Tool

Other Method Construction:

### Pipe Information

Pipe ID: 11017657 Casing No:

Comment: Alt Name:

#### **Construction Record - Casing**

Casing ID: 930763331

Layer: Material: STEEL

Open Hole or Material:

Depth From: 20 Depth To: Casing Diameter: 5 Casing Diameter UOM: inch ft Casing Depth UOM:

### Results of Well Yield Testing

Pump Test ID: 996704985

Pump Set At:

Static Level: 12

Final Level After Pumping: Recommended Pump Depth:

Pumping Rate: Flowing Rate:

Recommended Pump Rate:

Levels UOM:

Rate UOM: **GPM** Water State After Test Code: 2 CLOUDY Water State After Test:

Pumping Test Method: 2 **Pumping Duration HR:** 0 5 **Pumping Duration MIN:** 

Flowing: N

**Draw Down & Recovery** 

 Pump Test Detail ID:
 935135869

 Test Type:
 Recovery

 Test Duration:
 60

 Test Level:
 12

 Test Level UOM:
 ft

17 1 of 1 ESE/178.8 337.9 / 3.00 25 coutts court Guelph ON SPL

 Ref No:
 0860-9UCQJF
 Discharger Report:

 Site No:
 NA
 Material Group:

 Incident Dt:
 3/3/2015
 Client Type:

 Year:
 Sector Type:

 Incident Cause:
 Leak/Break
 Source Type:

Incident Event: Course: Nearest Watercourse:

Contaminant Code: 15 Site Name: residential<UNOFFICIAL>

 Contaminant Name:
 HYDRAULIC OIL
 Site Address:
 25 courts court

 Contaminant Limit 1:
 Site District Office:

Contaminant Limit 7: Site District Office:
Contam Limit Freq 1: Site County/District:
Contaminant UN No 1: Site Postal Code:

Contaminant Qty: 0 other - see incident description Site Region:

Environment Impact: Site Municipality: Guelph
Nature of Impact: Land Site Lot:

Receiving Medium: Site Conc:
Receiving Env: Northing: 4818765

Health/Env Conseq: Easting: 565373

MOE Response: N Site Geo Ref Accu:

Dt MOE Arvl on Scn:

MOE Reported Dt:

3/6/2015

Site Geo Ref Meth:
Site Map Datum:

 MOE Reported Dt:
 3/6/2015
 Site Map D

 Dt Document Closed:
 3/12/2015

Agency Involved:
SAC Action Class:

Land Spills

Incident Reason: Operator/Human Error

Incident Summary: Courts Court; Possible Hydraulic oil into snow on Cul de sac

18 1 of 1 SE/194.9 337.9 / 3.00 lot 6 con 8 GUELPH ON WWIS

Order No: 20180913184

Well ID: 7211048 Data Entry Status:
Construction Date: Data Src:

 Primary Water Use:
 Date Received:
 11/8/2013

 Sec. Water Use:
 Selected Flag:
 Yes

 Final Well Status:
 Abandonment Rec:
 Yes

 Water Type:
 Contractor:
 2663

 Casing Material:
 Form Version:
 7

Casing Material: Form Version:
Audit No: Z172130 Owner:

 Tag:
 Street Name:
 246 ARKELL RD

 Construction Method:
 County:
 WELLINGTON

County: WELLINGTON

Elevation (m): Municipality: PUSLINCH TOWNSHIP

Elevation Reliability: Site Info:

Depth to Bedrock: Lot: 006

Well Depth: Concession: 08

Overburden/Bedrock: Concession Name: CON

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

Flow Rate: UTM Reliability:

Clear/Cloudy:

Elevation:

Elevrc:

East83:

Org CS:

North83:

UTMRC:

UTMRC Desc:

Location Method:

Zone:

337.67

565360 UTM83

4818738

margin of error: 30 m - 100 m

Order No: 20180913184

17

wwr

**Bore Hole Information** 

**Bore Hole ID:** 1004630819

DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind:

Date Completed: 23-AUG-13

Remarks: Elevrc Desc:

Location Source Date:

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

Annular Space/Abandonment

Sealing Record

**Plug ID:** 1004889960

 Layer:
 1

 Plug From:
 0

 Plug To:
 6

 Plug Depth UOM:
 ft

**Plug ID:** 1004889961

Layer: 2
Plug From: -6
Plug To:

Plug Depth UOM: ft

Method of Construction & Well

<u>Use</u>

Method Construction ID: 1004889959

Method Construction Code: Method Construction: Other Method Construction:

Pipe Information

**Pipe ID:** 1004889953

Casing No:

Comment: Alt Name:

**Construction Record - Casing** 

**Casing ID:** 1004889957

Layer: Material:

Open Hole or Material:

Depth From: Depth To: Casing Diameter:

Casing Diameter UOM: inch Casing Depth UOM: ft

Construction Record - Screen

**Screen ID:** 1004889958

Layer: Slot:

Screen Top Depth: Screen End Depth: Screen Material:

Screen Depth UOM: ft Screen Diameter UOM: inch

Screen Diameter:

Water Details

*Water ID*: 1004889956

Layer: Kind Code:

Kind: Water Found Depth:

Water Found Depth UOM: ft

Hole Diameter

**Hole ID:** 1004889955

Diameter: Depth From: Depth To:

Hole Depth UOM: ft
Hole Diameter UOM: inch

19 1 of 2 NE/208.7 341.9 / 7.03 14 AMOS DR, GUELPH

Health Impact:

Environment Impact:

No

Yes

FS-Perform P-line Inc Invest

SPL

Order No: 20180913184

Property Damage:

Service Interupt:

Enforce Policy:

Public Relation:

Pipe Material:

Depth:

PSIG:

Pipeline System:

Attribute Category:

Regualtor Location:

Incident ID:

Incident No: 1602706
Type: FS-Pipeline

Type: FS-Pipeline Incident
Status Code: Pipeline Damage Reason Est

E-mail

Fuel Occurrence Tp:

Fuel Type:

Tank Status:RC EstablishedTask No:5415812

Spills Action Centre:

Method Details:

Fuel Category: Natural Gas

Date of Occurrence:

Occurrence Start 2015/03/25

2 of 2

Date:

Operation Type: Pipeline Type: Regulator Type:

Summary: 14 AMOS DR, GUELPH - PIPELINE HIT - 1/2"

Reported By: Jeremy Miller - UNION GAS

Affiliation:
Occurrence Desc:

Damage Reason: Excavation practices not sufficient

Notes:

NE/208.7

Union Gas Limited 14 Amos Dr

Guelph ON

Ref No: 2642-9UVPW3 Discharger Report:

341.9 / 7.03

19

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

Site No: NA Material Group: Incident Dt: 3/23/2015 Client Type:

Year: Sector Type: Incident Cause: Leak/Break Source Type:

Incident Event: Nearest Watercourse:

Residential<UNOFFICIAL> Contaminant Code: Site Name: Contaminant Name: Site Address: 14 Amos Dr

NATURAL GAS (METHANE) Contaminant Limit 1: Site District Office: Contam Limit Freg 1: Site County/District:

Contaminant UN No 1: Site Postal Code: Contaminant Qty: 0 other - see incident description Site Region:

**Environment Impact:** Site Municipality: Guelph Nature of Impact: Air Site Lot:

Site Conc: Receiving Medium: Receiving Env: Northing: Health/Env Conseq: Easting: MOE Response: Ν Site Geo Ref Accu:

Dt MOE Arvl on Scn: Site Geo Ref Meth: 3/23/2015 MOE Reported Dt: Site Map Datum:

**Dt Document Closed:** Agency Involved: SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill

Incident Reason: Operator/Human Error

TSSA: Line Stike- 14 Amos Dr, Still on going- Should be done by 14:00 Incident Summary:

1 of 1 20 ENE/217.7 342.6 / 7.71 **WWIS GUELPH ON** 

Well ID: 7163100 Data Entry Status:

**Construction Date:** Data Src: Primary Water Use: Test Hole Date Received: 5/13/2011 Sec. Water Use: Selected Flag: Yes

Test Hole Final Well Status: Abandonment Rec:

Water Type: Contractor: 7238 Casing Material: Form Version: 7

Audit No: Z123619 Owner: 246 ARKELL RD A109402 Tag: Street Name:

**Construction Method:** County: WELLINGTON Elevation (m): Municipality: **GUELPH CITY** Elevation Reliability: Site Info: Depth to Bedrock: Lot:

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

Flowing (Y/N): Zone:

UTM Reliability: Flow Rate: Clear/Cloudy:

**Bore Hole Information** 

Bore Hole ID: 1003509264 Elevation: 342.11

DP2BR: Elevro:

Spatial Status: Zone: 17 565385 Code OB: East83: Code OB Desc: Org CS: UTM83 Open Hole: North83: 4818960 UTMRC:

Cluster Kind: Date Completed: 25-APR-11 UTMRC Desc: margin of error: 10 - 30 m

Order No: 20180913184

Location Method: Remarks: wwr

Elevrc Desc:

Location Source Date:

Improvement Location Source:

Improvement Location Method: Source Revision Comment:

Supplier Comment:

#### Overburden and Bedrock

**Materials Interval** 

**Formation ID:** 1003821505

Layer: 2 Color: General Color: **BROWN** 05 Mat1: Most Common Material: CLAY Mat2: 11 Other Materials: **GRAVEL** Mat3: 73 Other Materials: HARD Formation Top Depth: 2.44 Formation End Depth: 5.18 Formation End Depth UOM:

**Formation ID:** 1003821504

 Layer:
 1

 Color:
 6

 General Color:
 BROWN

 Mat1:
 13

Most Common Material:BOULDERSMat2:11Other Materials:GRAVELMat3:73Other Materials:HARDFormation Top Depth:0Formation End Depth:2.44

m

Annular Space/Abandonment

Formation End Depth UOM:

Sealing Record

**Plug ID:** 1003821513

 Layer:
 1

 Plug From:
 0

 Plug To:
 1.22

 Plug Depth UOM:
 m

Method of Construction & Well

<u>Use</u>

Method Construction ID: 1003821511

Method Construction Code:EMethod Construction:Auger

**Other Method Construction:** 

Pipe Information

**Pipe ID:** 1003821503

Casing No: 0

Comment: Alt Name:

Construction Record - Casing

Casing ID: 1003821508

DB Map Key Number of Direction/ Elev/Diff Site Records Distance (m) (m) Layer: Material: 5 **PLASTIC** Open Hole or Material: Depth From: 0 Depth To: 1.52 Casing Diameter: 5.1 Casing Diameter UOM: cm Casing Depth UOM: m **Construction Record - Screen** 1003821509 Screen ID: Layer: Slot: Screen Top Depth: 1.52 Screen End Depth: 4.57 Screen Material: 5 Screen Depth UOM: m Screen Diameter UOM: cm Screen Diameter: 6.4 Water Details 1003821507 Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM: m **Hole Diameter** Hole ID: 1003821506 Diameter: 21 Depth From: 0 Depth To: 5.18 Hole Depth UOM: m Hole Diameter UOM: cm 1 of 1 SE/222.7 337.6 / 2.69 lot 7 con 8 21 **WWIS GUELPH ON** Well ID: 6715351 Data Entry Status: **Construction Date:** Data Src: Primary Water Use: Date Received: 6/14/2005 Sec. Water Use: Selected Flag: Yes Final Well Status: Abandoned-Other Abandonment Rec: Yes Water Type: Contractor: 2663 Casing Material: Form Version: 3 Audit No: Z28958 Owner: 171 ARKEL ROAD Street Name: Tag: **Construction Method:** WELLINGTON County: Municipality: **GUELPH CITY** Elevation (m): Elevation Reliability: Site Info: Depth to Bedrock: Lot: 007

Concession:

Zone:

Concession Name:

Easting NAD83:

Northing NAD83:

UTM Reliability:

80

Order No: 20180913184

Well Depth:

Pump Rate:

Flow Rate: Clear/Cloudy:

Flowing (Y/N):

Overburden/Bedrock:

Static Water Level:

Elevrc:

East83:

Org CS:

North83:

UTMRC:

UTMRC Desc:

Location Method:

Zone:

336.59

565336

UTM83

wwr

4818672

28-JUN-16

Order No: 20180913184

margin of error: 30 m - 100 m

17

**Bore Hole Information** 

Bore Hole ID: 11327137 Elevation:

DP2BR: Spatial Status:

Code OB:

Code OB Desc:
Open Hole:

No formation data

. Cluster Kind:

Date Completed: 01-JUN-05

Remarks: Elevrc Desc:

Location Source Date:

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

Annular Space/Abandonment

Sealing Record

**Plug ID:** 933270548

 Layer:
 1

 Plug From:
 -6

 Plug To:
 75

 Plug Depth UOM:
 m

Method of Construction & Well

Use

Method Construction ID: 966715351

Method Construction Code: Method Construction: Other Method Construction:

Pipe Information

**Pipe ID:** 11341992

Casing No:

Comment: Alt Name:

22 1 of 1 NNW/225.4 338.6 / 3.72 220 Arkell Road Guelph ON EHS

 Order ID:
 467181
 Date Received:

 Order No:
 20160628104
 Lot/Building Size:

Customer ID: 56827 Municipality:
Company ID: 56 Client Prov/State: ON

 Status:
 C
 Search Radius (km):
 .25

 Report Code:
 4CAN
 Large Radius:
 .3

 Report Type:
 Custom Report
 X:
 -80.

Report Type:Custom ReportX:-80.194142Report Date:29-JUN-16Y:43.521645Report Requested by:Stantec Consulting Ltd.

Nearest Intersection:
Previous Site Name:
Additional Info Ordered:

SSE/228.6 336.8 / 1.97 23 1 of 1 lot 7 con 8 **WWIS** ON

Well ID: 6711291

Construction Date:

Primary Water Use: Domestic Sec. Water Use:

Final Well Status: Water Supply

Water Type: Casing Material:

Audit No: 124315

Tag:

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

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

Data Entry Status:

Data Src:

Date Received: 10/7/1993 Selected Flag: Yes Abandonment Rec:

2663 Contractor: Form Version: 1

Owner: Street Name:

WELLINGTON County:

Municipality: **PUSLINCH TOWNSHIP** 

Site Info:

Lot: 007 Concession: 80 Concession Name: CON

Easting NAD83: Northing NAD83: Zone: UTM Reliability:

**Bore Hole Information** 

Bore Hole ID: 10475125

DP2BR: Spatial Status:

Code OB:

Code OB Desc: Overburden

Open Hole:

Cluster Kind:

Date Completed: 22-SEP-93

Remarks: Elevrc Desc:

Location Source Date:

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

Supplier Comment:

Elevation: 336.33

Elevrc:

Zone: 17 East83: 565322.3

Org CS:

North83: 4818655

**UTMRC**:

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

Order No: 20180913184

Location Method: gps

Overburden and Bedrock

Materials Interval

932651879 Formation ID:

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

Formation ID: 932651880

Layer: 4

Color: General Color:

Formation End Depth UOM:

31 Mat1:

ft

Most Common Material: COARSE GRAVEL

Mat2:

Other Materials:

Mat3:

Other Materials:

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

932651878 Formation ID:

Layer:

Color:

General Color:

Mat1:

Most Common Material: COARSE SAND

Mat2:

Other Materials: COARSE GRAVEL

2

Mat3:

Other Materials:

Formation Top Depth: 3 20 Formation End Depth: Formation End Depth UOM:

932651877 Formation ID:

Layer:

Color:

General Color:

01 Mat1: FILL

Most Common Material:

Mat2:

Other Materials: Mat3: Other Materials:

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

Annular Space/Abandonment

Sealing Record

Plug ID: 933210343

Layer: 1 Plug From: 0 20 Plug To: Plug Depth UOM:

Method of Construction & Well

<u>Use</u>

966711291 **Method Construction ID:** 

**Method Construction Code:** 

**Method Construction:** Rotary (Air)

Other Method Construction:

Pipe Information

Pipe ID: 11023695

Casing No:

Comment: Alt Name:

**Construction Record - Casing** 

Order No: 20180913184

**Casing ID:** 930773855

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

Depth From:

Depth To: 63

Casing Diameter:

Casing Diameter UOM: inch Casing Depth UOM: ft

**Casing ID:** 930773856

Layer: 2 Material: 4

Open Hole or Material: OPEN HOLE

Depth From:

Depth To: 75

Casing Diameter:

Casing Diameter UOM: inch Casing Depth UOM: ft

### Results of Well Yield Testing

**Pump Test ID:** 996711291

Pump Set At:

18 Static Level: Final Level After Pumping: 18 50 Recommended Pump Depth: Pumping Rate: 20 Flowing Rate: 20 Recommended Pump Rate: Levels UOM: ft Rate UOM: GPM Water State After Test Code: Water State After Test: **CLEAR** Pumping Test Method:

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

#### **Draw Down & Recovery**

 Pump Test Detail ID:
 934874504

 Test Type:
 Recovery

 Test Duration:
 45

 Test Level:
 18

 Test Level UOM:
 ft

 Pump Test Detail ID:
 934348742

 Test Type:
 Recovery

 Test Duration:
 15

 Test Level:
 18

 Test Level UOM:
 ft

 Pump Test Detail ID:
 935135034

 Test Type:
 Recovery

 Test Duration:
 60

 Test Level:
 18

 Test Level UOM:
 ft

Pump Test Detail ID:934613477Test Type:RecoveryTest Duration:30Test Level:18

Test Level UOM:

Water Details

Water ID: 933965204 Layer: 2 Kind Code: **FRESH** Kind:

ft

Water Found Depth: 75 Water Found Depth UOM:

933965203 Water ID:

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

24 1 of 1 SE/235.7 337.9 / 3.00 lot 7 con 8 **WWIS** ON

Well ID: 6714128

Construction Date:

Not Used Primary Water Use:

Sec. Water Use:

Final Well Status: Abandoned-Other

Water Type: Casing Material:

Audit No: 235169

Tag:

**Construction Method:** Elevation (m):

Elevation Reliability: Depth to Bedrock: Well Depth:

Overburden/Bedrock:

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

Clear/Cloudy:

**Bore Hole Information** 

Bore Hole ID: 10536336

DP2BR:

Spatial Status:

Code OB:

No formation data Code OB Desc:

Open Hole:

Cluster Kind:

Date Completed: 26-JUN-02

Remarks: Elevrc Desc:

Location Source Date:

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

**Supplier Comment:** 

Method of Construction & Well

<u>Use</u>

Data Entry Status:

Data Src: Date Received: 7/3/2002 Yes

Selected Flag: Abandonment Rec:

Contractor: 2663 Form Version: 1

Owner: Street Name:

County: WELLINGTON

Municipality: **PUSLINCH TOWNSHIP** 

Site Info:

Lot: 007 Concession: 80 CON Concession Name:

Easting NAD83: Northing NAD83: Zone: UTM Reliability:

Elevation: 336.82

Elevro: Zone:

565360.6 East83:

Org CS: North83: 4818676

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

Order No: 20180913184

Location Method:

**Method Construction ID:** 966714128

**Method Construction Code:** 

Method Construction: Not Known

Other Method Construction:

Pipe Information

Pipe ID: 11084906

Casing No: Comment:

Alt Name:

25 1 of 1 SW/237.4 334.9 / 0.00 lot 6 con 8 **WWIS** ON

6702585 Well ID:

Construction Date: Livestock Primary Water Use: Domestic Sec. Water Use: Water Supply

Final Well Status: Water Type: Casing Material: Audit No:

Tag: **Construction Method:** 

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

Overburden/Bedrock: Pump Rate: Static Water Level:

Flowing (Y/N): Flow Rate: Clear/Cloudy:

Data Entry Status:

Data Src:

1/9/1952 Date Received: Selected Flag: Yes

Abandonment Rec:

Contractor: 2414 Form Version: 1

Owner: Street Name:

WELLINGTON County:

**GUELPH CITY (PUSLINCH TWP)** Municipality:

Site Info: Lot:

006 Concession: 80 Concession Name: CON

Easting NAD83: Northing NAD83:

Zone:

UTM Reliability:

#### **Bore Hole Information**

Bore Hole ID: 10466728 DP2BR: 102

Spatial Status:

Code OB:

Code OB Desc: Bedrock

Open Hole: Cluster Kind:

17-SEP-51 Date Completed:

Remarks: Elevrc Desc:

Location Source Date:

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

Supplier Comment:

Overburden and Bedrock **Materials Interval** 

Formation ID: 932614447

Layer:

Color: General Color: Elevation: 334.3

Elevrc:

Zone: East83: 565065.3

Org CS:

North83: 4818651

UTMRC:

UTMRC Desc: unknown UTM

Order No: 20180913184

Location Method: p9

DB Map Key Number of Direction/ Elev/Diff Site Records Distance (m) (m) 14 Mat1:

Most Common Material: **HARDPAN** 

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 79 89 Formation End Depth: Formation End Depth UOM: ft

932614445 Formation ID:

Layer:

Color:

General Color:

Mat1: **GRAVEL** Most Common Material:

Mat2:

Other Materials:

Mat3:

Other Materials:

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

Formation ID: 932614446

3 Layer: Color: 6 **BROWN** General Color: 05 Mat1: Most Common Material: CLAY

Mat2: 09

Other Materials: **MEDIUM SAND** 

Mat3:

Other Materials:

Formation Top Depth: 65 79 Formation End Depth: Formation End Depth UOM: ft

932614444 Formation ID:

Layer: Color: 3 General Color: **BLUE** Mat1: 05 Most Common Material: CLAY Mat2: 13

Other Materials: **BOULDERS** 

Mat3:

Other Materials: 0 Formation Top Depth: Formation End Depth: 50 Formation End Depth UOM:

Formation ID: 932614449

Layer: 6 Color: 6 **BROWN** General Color: Mat1: 15 LIMESTONE Most Common Material:

Mat2:

Other Materials:

Mat3:

Other Materials:

Formation Top Depth: 102 Formation End Depth: 113 Formation End Depth UOM: ft

Order No: 20180913184

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

Formation ID: 932614448

Layer: Color: 5

General Color:

Mat1: 09

MEDIUM SAND Most Common Material:

Mat2:

Other Materials: Mat3: Other Materials:

Formation Top Depth: 89 Formation End Depth: 102 Formation End Depth UOM: ft

Method of Construction & Well

<u>Use</u>

966702585 Method Construction ID:

**Method Construction Code:** 

**Method Construction:** Cable Tool

Other Method Construction:

Pipe Information

Pipe ID: 11015298 Casing No:

Comment: Alt Name:

**Construction Record - Casing** 

930759051 Casing ID:

Layer: Material:

Open Hole or Material: STEEL Depth From:

Depth To:

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

930759052 Casing ID:

Layer: 2 Material:

Open Hole or Material: **OPEN HOLE** 

Depth From:

Depth To: 113 Casing Diameter: 7 Casing Diameter UOM: inch Casing Depth UOM:

Results of Well Yield Testing

996702585 Pump Test ID:

Pump Set At:

Static Level: 29 Final Level After Pumping: 39 Recommended Pump Depth: 6 Pumping Rate: Flowing Rate:

Recommended Pump Rate:

ft Levels UOM:

Order No: 20180913184

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

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

Water Details

933954925 Water ID: Layer: Kind Code: Kind. **FRESH** 

Water Found Depth: 105 Water Found Depth UOM: ft

1 of 1 NE/241.1 345.3 / 10.43 lot 6 con 8 **26 WWIS GUELPH ON** 

Well ID: 7211047

**Construction Date:** Primary Water Use: Sec. Water Use: 0 Final Well Status: Water Type:

Casing Material:

Audit No: Z172129

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

Overburden/Bedrock:

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

Data Entry Status:

Data Src: 11/8/2013 Date Received: Selected Flag: Yes Abandonment Rec: Yes 2663 Contractor: Form Version:

Owner: Street Name: 246 ARKELL RD County: WELLINGTON

Municipality: Site Info:

Lot: 006 Concession: 80 CON Concession Name:

Easting NAD83: Northing NAD83: Zone: UTM Reliability:

**Bore Hole Information** 

Bore Hole ID: 1004630816

DP2BR: Spatial Status: Code OB: Code OB Desc:

Cluster Kind:

Date Completed: 23-AUG-13

Remarks: Elevrc Desc:

Open Hole:

Location Source Date:

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

Annular Space/Abandonment Sealing Record

Elevation: 344.08

Elevrc:

Zone: 17 East83: 565398 UTM83 Org CS: North83: 4818983 UTMRC:

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

Order No: 20180913184

**PUSLINCH TOWNSHIP** 

Location Method:

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	D	В
Plug ID:		1004889951				
Layer:		1				
Plug From:		0				
Plug To:	1014	6				
Plug Depth U	JOIVI:	m				
Plug ID:		1004889952				
Layer:		2				
Plug From:		-6				
Plug To:		12				
Plug Depth U	ЈОМ:	m				
Method of Co Use Method Cons	onstruction & Well	1004889950				
Method Cons Method Cons	struction Code:	1004669930				
Pipe Informa	<u>tion</u>					
Pipe ID:		1004889944				
Casing No:		0				
Comment:						
Alt Name:						
Construction	n Record - Casing					
Casing ID:		1004889948				
Layer:						
Material:	u Mataulala					
Open Hole of Depth From: Depth To:						
Casing Diam						
Casing Diam		cm				
Casing Depti	h UOM:	m				
Construction	n Record - Screen					
Screen ID:		1004889949				
Layer:						
Slot:						
Screen Top I						
Screen End I						
Screen Mate Screen Depti		m				
Screen Diam		cm				
Screen Diam						
Water Details	<u>s</u>					
Water ID:		1004889947				
Layer:						
Kind Code:						
Kind:	I Dansk					
Water Found	l Depth: l Depth UOM:	m				
rrater r-ourid	Departion.	***				

Order No: 20180913184

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

*Hole ID*: 1004889946

Diameter:
Depth From:
Depth To:
Hole Depth US

Hole Depth UOM: m
Hole Diameter UOM: cm

Order No: 20180913184

# Unplottable Summary

## Total: 8 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	The Corporation of the City of Guelph	Arkell Rd (from Gordon Street to Victoria Road)	Guelph ON	
CA	TWP.	ARKELL RD. (RD.37)	PUSLINCH ON	
CA	The Corporation of the City of Guelph	Arkell Rd (from Gordon Street to Victoria Road)	Guelph ON	
CA	Elora Rail Trail Sewer	Part of Lot 6, Lot 7 & Lot 8, RPlan 246	Centre Wellington ON	
ECA	The Corporation of the City of Guelph	Arkell Road to Stone Road East	Guelph ON	N1H 3A1
ECA	The Corporation of the City of Guelph	Arkell Road to Stone Road East	Guelph ON	N1H 3A1
PES	DUTCH MILL NURSERY LTD.	R.R. #2, ARKELL ROAD	GUELPH ON	
SPL	The Corporation of the City of Guelph	SUMMERFIELD DRIVE (BETWEEN VICTORIA ROAD SOUTH AND GORDON STREET) <unofficial></unofficial>	Guelph ON	

Order No: 20180913184

## Unplottable Report

Site: The Corporation of the City of Guelph

Arkell Rd (from Gordon Street to Victoria Road) Guelph ON

Approved

Database:

Database:

Database:

 Certificate #:
 3084-7CAQT3

 Application Year:
 2008

 Issue Date:
 3/7/2008

Approval Type: Municipal and Private Sewage Works

Status:

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

**Emission Control::** 

Site: TWP.

ARKELL RD. (RD.37) PUSLINCH ON

**Certificate #:** 3-0361-85-006

Application Year: 85
Issue Date: 7/10/85

Approval Type: Municipal sewage Status: Approved

Status: Application Type: Client Name:: Client Address:: Client City::

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

Site: The Corporation of the City of Guelph

Arkell Rd (from Gordon Street to Victoria Road) Guelph ON

 Certificate #:
 9839-7CDS44

 Application Year:
 2008

 Issue Date:
 3/7/2008

Approval Type: Municipal and Private Sewage Works

Status: Approved

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

Site: Elora Rail Trail Sewer

Part of Lot 6, Lot 7 & Lot 8, RPlan 246 Centre Wellington ON

Certificate #: 2501-4N7PRA

Application Year: 00

Database:

Order No: 20180913184

erisinfo.com | Environmental Risk Information Services

8/14/00 Issue Date:

Municipal & Private sewage Approval Type:

Status: Approved

New Certificate of Approval Application Type: Client Name:: James Keating Construction Limited

Client Address:: 70 Mathieson St. Centre Wellington Client City:: Client Postal Code:: N0B 1S0

Project Description:: Installation of an underground sanitary sewer and apurtenances to service a commercial site being 0.966 hectares

in size.

Contaminants:: **Emission Control::** 

Site: The Corporation of the City of Guelph

Arkell Road to Stone Road East Guelph ON N1H 3A1

Database: **ECA** 

9560-8VMLPH Approval No: SWP Area Name: Approval Date: 2012-06-28 MOE District:

Status: Approved Guelph City: **ECA** 

Record Type: Longitude: Link Source: **IDS** Latitude: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Approval Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type:

Address: Arkell Road to Stone Road East

Full Address:

Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9672-8TMQ8U-14.pdf

Site: The Corporation of the City of Guelph

Arkell Road to Stone Road East Guelph ON N1H 3A1

Database: **ECA** 

Approval No: 1511-8TRNYD SWP Area Name:

**MOE District:** Approval Date: 2012-05-07

Approved Status: City:

**ECA** Record Type: Longitude: IDS Latitude: Link Source: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type:

Arkell Road to Stone Road East Address:

Full Address:

Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5641-8TMQ2Q-14.pdf

Site: DUTCH MILL NURSERY LTD.

R.R. #2, ARKELL ROAD GUELPH ON

Database: PES

Licence No: Operator Box: Operator Class: Detail Licence No: Licence Type Code: Operator No: Licence Type: Vendor Operator Type: Operator Lot: Licence Class:

Licence Control: Oper Concession: Trade Name: Operator Region: Post Office Box: Operator District: Lot: **Operator County:** Concession: Oper Phone Area Cd:

Region: Ext:

Oper Phone No: District: County: Proponent Ext:

Site: The Corporation of the City of Guelph

SUMMERFIELD DRIVE (BETWEEN VICTORIA ROAD SOUTH AND GORDON STREET)<UNOFFICIAL> Guelph ON

Database:

Ref No: 2204-66NN2U Discharger Report:

Site No: Material Group: Oil

Incident Dt: 11/12/2004 Client Type: erisinfo.com | Environmental Risk Information Services

Order No: 20180913184

Guelph

68

Year: Sector Type: Other Motor Vehicle

Incident Cause: Pipe Or Hose Leak Source Type:

Incident Event: Nearest Watercourse:

Contaminant Code: 15 Site Name: SUMMERFIELD DRIVE (BETWEEN VICTORIA ROAD SOUTH AND GORDON

STREET)<UNOFFICIAL>

Order No: 20180913184

 Contaminant Name:
 HYDRAULIC OIL
 Site Address:

 Contaminant Limit 1:
 Site District Office:
 Guelph

Contaminant Limit 1: Site District Office:
Contam Limit Freq 1: Site County/District:

 Contaminant UN No 1:
 Site Postal Code:

 Contaminant Qty:
 182 L

 Environment Impact:
 Not Anticipated

 Site Region:
 West Central

 Site Municipality:
 Guelph

 Nature of Impact:
 Other Impact(s)
 Site Lot:

 Receiving Medium:
 Land
 Site Conc:

 Receiving Env:
 Northing:

 Health/Env Conseq:
 Fasting:

Health/Env Conseq: Easting:
MOE Response: Site Geo I

MOE Response:

Dt MOE Arvi on Scn:

Site Geo Ref Accu:

Site Geo Ref Meth:

NOE Responsed Dt: 11/12/2004

Site Man Patum:

MOE Reported Dt: 11/12/2004 Site Map Datum: Dt Document Closed:

Agency Involved:
SAC Action Class:
Incident Reason:
Spill to Land
Equipment Failure

Incident Summary: City of Guelph, 40 gall. of hydr. oil to road

## 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

AGR

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

Government Publication Date: Sept 2002\*

Aggregate Inventory:

Provincial AGR

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

Government Publication Date: Up to Sep 2017

#### Abandoned Mine Information System:

Provincial

**AMIS** 

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

Government Publication Date: 1800-Nov 2016

#### Anderson's Waste Disposal Sites:

Private

ANDR

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

Government Publication Date: 1860s-Present

## **Automobile Wrecking & Supplies:**

Private

AUWR

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

Government Publication Date: 1999-Jul 31, 2018

Borehole: Provincial BORE

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

Government Publication Date: 1875-Jul 2014

## **Certificates of Approval:**

Provincial

CA

Order No: 20180913184

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

Government Publication Date: 1985-Oct 30, 2011\*

Commercial Fuel Oil Tanks:

Provincial CFOT

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

Government Publication Date: Feb 28, 2017

<u>Chemical Register:</u> Private CHEM

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

Government Publication Date: 1999-Jul 31, 2018

#### **Compressed Natural Gas Stations:**

Private

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

Government Publication Date: Dec 2012 - Apr 2018

#### **Inventory of Coal Gasification Plants and Coal Tar Sites:**

Provincial

COAL

**CNG** 

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

Government Publication Date: Apr 1987 and Nov 1988\*

## Compliance and Convictions:

Provincial

CONV

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

Government Publication Date: 1989-Apr 2018

## **Certificates of Property Use:**

Provincial

CPU

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

Government Publication Date: 1994-Jul 31, 2018

<u>Drill Hole Database:</u> Provincial DRL

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

Government Publication Date: 1886-Nov 30, 2017

<u>Dry Cleaning Facilities:</u>
Federal DRYCLEANERS

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

Government Publication Date: Jan 2004-Dec 2016

## Environmental Activity and Sector Registry:

Provincial

EASR

Order No: 20180913184

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

Government Publication Date: Oct 2011-Jul 31, 2018

Environmental Registry:

Provincial EBR

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

Government Publication Date: 1994-Jul 31, 2018

#### **Environmental Compliance Approval:**

Provincial

**ECA** 

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

Government Publication Date: Oct 2011-Jul 31, 2018

## **Environmental Effects Monitoring:**

Federal

EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007\*

**ERIS Historical Searches:** 

Private

EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Feb 28, 2018

## **Environmental Issues Inventory System:**

Federal

FIIS

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

FMHF

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

Government Publication Date: Dec 31, 2016

## **List of TSSA Expired Facilities:**

Provincial

EXP

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

Government Publication Date: Feb 28, 2017

Federal Convictions:

Federal

FCON

Order No: 20180913184

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

CS

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

Government Publication Date: Jun 2000-May 2018

#### Fisheries & Oceans Fuel Tanks:

Federal

**FOFT** 

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

Government Publication Date: 1964-Sep 2017

Fuel Storage Tank:

Provincial FST

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

Government Publication Date: Feb 28, 2017

## Fuel Storage Tank - Historic:

Provincial

**FSTH** 

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

Government Publication Date: Pre-Jan 2010\*

## Ontario Regulation 347 Waste Generators Summary:

Provincial

GEN

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

Government Publication Date: 1986-December 31, 2017

## Greenhouse Gas Emissions from Large Facilities:

Federal

GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2016

TSSA Historic Incidents:

Provincial

IINC

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

Government Publication Date: 2006-June 2009\*

## Indian & Northern Affairs Fuel Tanks:

Federal

IAFT

Order No: 20180913184

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\*

Provincial TSSA Incidents:

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

Government Publication Date: Feb 28, 2017

## **Landfill Inventory Management Ontario:**

Provincial

LIMO

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

Government Publication Date: Dec 31, 2013

**Canadian Mine Locations:** 

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

latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009\*

#### **Environmental Penalty Annual Report:**

Provincial

Private

MISA PENALTY

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

Government Publication Date: Jan 1, 2011 - Dec 31, 2017

Provincial **Mineral Occurrences: MNR** 

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

Government Publication Date: 1846-Jan 2018

## National Analysis of Trends in Emergencies System (NATES):

Federal

**NATE** 

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

Government Publication Date: 1974-1994\*

Provincial **Non-Compliance Reports: NCPL** 

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

Government Publication Date: Dec 31, 2016

## National Defense & Canadian Forces Fuel Tanks:

Federal

**NDFT** 

Order No: 20180913184

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

Government Publication Date: Up to May 2001\*

#### National Defense & Canadian Forces Spills:

Federal NDSP

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

Government Publication Date: Mar 1999-Apr 2018

## National Defence & Canadian Forces Waste Disposal Sites:

Federal

NDWD

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

\*\*Government Publication Date: 2001-Apr 2007\*\*

## National Energy Board Pipeline Incidents:

Federal

NEBI

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

Government Publication Date: 2008-Mar 31, 2018

## National Energy Board Wells:

Federal

NEBW

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

Government Publication Date: 1920-Feb 2003\*

#### National Environmental Emergencies System (NEES):

Federal

IEES

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

Government Publication Date: 1974-2003\*

National PCB Inventory:

Federal

NPCB

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

Government Publication Date: 1988-2008\*

## National Pollutant Release Inventory:

Federal

**NPRI** 

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

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGW

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

Government Publication Date: 1988-April 30, 2018

Ontario Oil and Gas Wells:

Provincial

OOGW

Order No: 20180913184

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-May 2018

#### **Inventory of PCB Storage Sites:**

Provincial

OPCB

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

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

Orders:

Provincial ORD

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

Government Publication Date: 1994-Jul 31, 2018

Canadian Pulp and Paper:

Private PAP

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

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

#### Parks Canada Fuel Storage Tanks:

Federal

PCFT

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

Government Publication Date: 1920-Jan 2005\*

<u>Pesticide Register:</u> Provincial PES

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

Government Publication Date: 1988-Mar 2018

<u>TSSA Pipeline Incidents:</u> Provincial PINC

List of pipeline incidents (strikes, leaks, spills) made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors, and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of pipeline incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

## Private and Retail Fuel Storage Tanks:

Provincial

PRT

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

Government Publication Date: 1989-1996\*

Permit to Take Water:

Provincial PTTW

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

Government Publication Date: 1994-Jul 31, 2018

## Ontario Regulation 347 Waste Receivers Summary:

Provincial

REC

Order No: 20180913184

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Apr 2018

Retail Fuel Storage Tanks:

Private RST

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

Government Publication Date: 1999-Jul 31, 2018

## Scott's Manufacturing Directory:

Private

SCT

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

Government Publication Date: 1992-Mar 2011\*

Ontario Spills:

Provincial SPL

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

Government Publication Date: 1988-May 2018

#### Wastewater Discharger Registration Database:

rovincial SRDS

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

Government Publication Date: 1990-Dec 31, 2016

## Anderson's Storage Tanks:

Private

TANK

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

Government Publication Date: 1915-1953\*

## Transport Canada Fuel Storage Tanks:

Federal

TCFT

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

Government Publication Date: 1970-Aug 2017

## TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial

**VAR** 

Order No: 20180913184

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

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

Government Publication Date: Feb 28, 2017

#### Waste Disposal Sites - MOE CA Inventory:

Provincial

WDS

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

Government Publication Date: Oct 2011-Jul 31, 2018

## Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial

WDSH

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

Government Publication Date: Up to Oct 1990\*

## Water Well Information System:

Provincial

**WWIS** 

Order No: 20180913184

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

Government Publication Date: Dec 31, 2017

## **Definitions**

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

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

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

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

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

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

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

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

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

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

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

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

Order No: 20180913184



# **APPENDIX C**

# **REGULATORY RECORDS**

## **Arissa Cummings**

From: Danielle Maddock

Sent: Thursday, September 20, 2018 4:33 PM

To: Arissa Cummings
Cc: Jessica Sowa

**Subject:** FW: TSSA Request - 42063-200 - Phase One ESA

FYI!

## **Client First** | **Right Solution** | **Work Together**

Danielle Maddock *Administrative Assistant* Kitchener x1311

**From:** Public Information Services [mailto:publicinformationservices@tssa.org]

Sent: Thursday, September 20, 2018 12:49 PM

To: Danielle Maddock

Subject: RE: TSSA Request - 42063-200 - Phase One ESA

## No Records Found

Hello,

Thank you for your request for confirmation of public information.

We confirm that there are no fuel storage tanks records in our database at the subject address(es).

For copies of documents, please complete the Release of Public Information form, found at <a href="https://www.tssa.org/en/about-tssa/resources/Release-of-Records-form--Jan-2018Final.pdf">https://www.tssa.org/en/about-tssa/resources/Release-of-Records-form--Jan-2018Final.pdf</a> and email the completed form to <a href="public-informationservices@tssa.org">public-informationservices@tssa.org</a> or through mail along with the appropriate fee. TSSA's fee schedule can be found at: <a href="https://www.tssa.org/en/about-tssa/resources/Documents/Public-Information-Fee-Schedule\_Jan\_2018.pdf">https://www.tssa.org/en/about-tssa/resources/Documents/Public-Information-Fee-Schedule\_Jan\_2018.pdf</a>. Fees are payable with a credit card (Visa or MasterCard) or by a cheque made payable to TSSA.

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,

Connie

From: Danielle Maddock < DMaddock@mte85.com>

Sent: September 18, 2018 1:01 PM

To: Public Information Services <publicinformationservices@tssa.org>

Cc: Arissa Cummings <a href="mailto:ACummings@mte85.com">ACummings@mte85.com</a>; Jessica Sowa <a href="mailto:JSowa@mte85.com">JSowa@mte85.com</a>;

Subject: TSSA Request - 42063-200 - Phase One ESA

Good morning,

Can we please do an information request for fuel tanks/USTs at the following properties?

- 164 Arkell Road
- 182 Arkell Road
- 190 Arkell Road
- 210 Arkell Road
- 202 Arkell Road
- 216 Arkell Road
- 220 Arkell Road
- 2 Summerfield Drive
- 24 Coutts Court
- 26 Coutts Court

Thank you,

Danielle

# Danielle Maddock | Administrative Assistant MTE Consultants Inc.

T: 519-743-6500 x1311 | <u>DMaddock@mte85.com</u> 520 Bingemans Centre Drive, Kitchener, Ontario N2B 3X9 <u>www.mte85.com</u> | <u>Twitter</u> | <u>LinkedIn</u>

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UTM  5 R  The Ontario Water Re Elev. 4 R / 0 9 5 WATER WE  Basin 23 County or District Wellington  Con. 8 Lot	Township, Village, 7	ORD Fown or City 24th Oct	0NT RESOURCE Pusling cober 1962	ARIO WATER CES COMMISSION		
	dress R R #	#2 Gue	lph Ont			
Casing and Screen Record		Pumping Test				
Inside diameter of casing 4½ inch		Static level 16 ft				
Total length of casing 55 ft	Test-pumping rate 10 G.P.M.					
Type of screen none	Pumping level					
Length of screen nil	Duration of test I	Duration of test pumping 2 hrs.				
Depth to top of screen <b>nil</b>	Water clear or cle	Water clear or cloudy at end of test clear				
Diameter of finished hole 4½ inch	Recommended pumping rate 8 G.P.M.					
	with pump setting of 30 feet below ground surface					
Well Log				r Record		
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)		
Dug well	0	9	65 ft	fresh		
brown clay, gravel gray hard pan	9 34	34				
fine sand, gravel (cemented)	45	45 58				
gravel	58	64				
cemented gravel	64	6 <b>5</b>				
4 ft of 4 inch pipe up in dug well.						
total depth 65 ft.						
For what purpose(s) is the water to be used? <b>domestic</b>		Location	of Well			
Is well on upland, in valley, or on hillside? valley Drilling or Boring Firm  Graham Well drilling Address 119 Renfield St. Guelph Ont.  Licence Number 481  Name of Driller or Borer Robert Graham Address 210 Waverley Drive Guelph Ont.  Date November 5th 1962  J L Graham per 266	In diagram below show distances of well from road and lot line. Indicate north by arrow.  Cuelph  Parites  Reserves  Reserves  Reserves					
(Signature of Licensed Drilling or Boring Contractor)  Form 7 10M-62-1152		Abirpayl	<b>L</b>			
O W R C COPY		ų <b>∽</b>				

CSS.S8

# The Ontario Water Resources Act WATER WELL RECORD

0506 (07/94) Front Form 9

Print only in spaces provided. 6712543 Mark correct box with a checkmark, where applicable. 11 67012 Township/Borough/City/Town/Village Con block tract survey, etc. Lot ELLING-TON Live I name PUSLINCH Date Date completed Z LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) Depth - feet Other materials Most common material General description From BROWN SAND STONES 30 0 SAND - GRAVEL 39 BROWN 30 BROWN 39 Rock GREY 80 TOTAL DEPTH 6" DRIVE SHOE 32 **CASING & OPEN HOLE RECORD** WATER RECORD Sizes of opening (Slot No.) Inside inches ☐ Sulphur ☐ Minerals ☐ Gas Material and type <sup>1</sup> Fresh  $\frac{3}{4}$ <sup>2</sup> Salty  $\frac{3}{6}$ Steel
Galvanized
Galvanized
Concrete
Copen hole
Plastic Depth at top of screen Sulphur Minerals Gas 42 **PLUGGING & SEALING RECORD** Steel

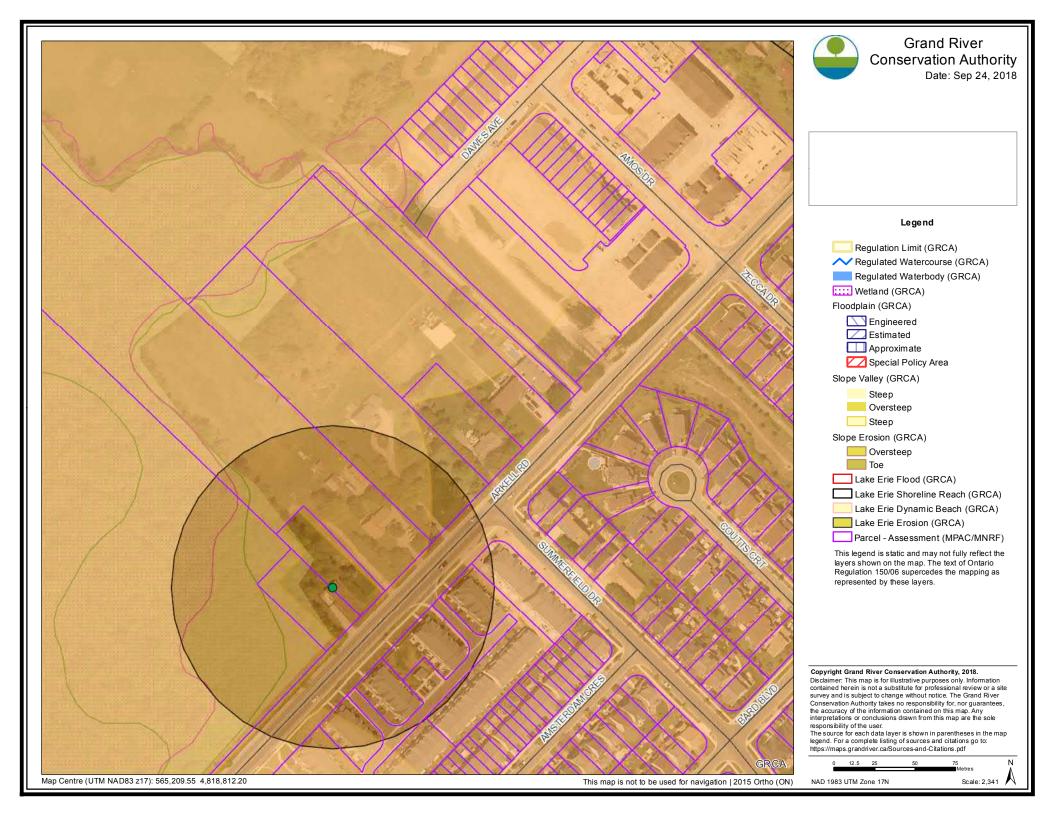
Galvanized

Galvanized

Concrete

Open hole

Plastic ☐ Sulphur ☐ Minerals ☐ Gas ¹ ☐ Fresh Depth set at - feet 2 🗆 Salty Material and type (Cement grout, bentonite, etc.) 42 80 ¹ ☐ Fresh Sulphur Steel 2
Galvanized
Concrete
Open hole
Plastic BENTONITE <sup>2</sup> Galty Minerals Gas 30-33 Sulphur Minerals 2 ∏ Saltv Pumping test method Duration of pumping
..../.... Hours ..../... Mins LOCATION OF WELL Pump <sup>2</sup> □ Bailer GPM In diagram below show dictances of well from road and lot line. Indicate north by arrow Static level Water level Water levels during ¹ 😾 Pumping end of pumping 15 minutes 30 minutes 29-31 45 minutes 32-34 19-21 50 feet // feet 5 Water at end of test Pump intake set at GPM Clear ☐ Cloudy Recommended pump type Recommended Recon mended pump rate pump setting 70 ☐ Shallow 🙀 Deep GPM **FINAL STATUS OF WELL** Water supply
Description well
Test hole
Recharge well WATER USE Domestic Stock Irrigation 9 🗍 Not used 10 🗎 Other ..... 4 | Industrial METHOD OF CONSTRUCTION 57 9 Driving
10 Digging
11 Other ... 187626 Well Contractor's Licence No. source JUN 0 8 1998 Date of inspection MINISTRY USE CSS. of statum



## **Jessica Sowa**

From: Arissa Cummings

Sent: Monday, September 24, 2018 2:52 PM

To: Jessica Sowa

**Subject:** FW: [External] Natural Gas Installation Dates (CID:zjw0v9b20mmkfhvkjg)

See below.

## **Client First | Right Solution | Work Together**

Arissa Cummings, B.Sc. *Project Manager* Kitchener x1365

**From:** Customer Relations [mailto:CustomerRelations@uniongas.com]

Sent: Monday, September 24, 2018 2:50 PM

To: Arissa Cummings

Subject: RE: [External] Natural Gas Installation Dates (CID:zjw0v9b20mmkfhvkjg)

Thank you for your email.

Please see the dates as requested:

· 164 Arkell Road: 4/11/2018

· 182 Arkell Road: 11/22/1995

· 190 Arkell Road: 9/1/1995

210 Arkell Road: 5/17/1978

202 Arkell Road: 11/16/1992

· 216 Arkell Road: 8/30/1982

220 Arkell Road: No Service

Sincerely,

Olivia

Customer Relations Union Gas Limited

----Original Message-----

From: Arissa Cummings [mailto:ACummings@mte85.com]

**Sent:** September-20-18 4:38:10 PM

To: Customer Relations

Cc: Jessica Sowa

Subject: [External] Natural Gas Installation Dates

Hello,

Can you please provide the natural gas installation date for the following properties located in Guelph, Ontario:

- 164 Arkell Road
- 182 Arkell Road
- 190 Arkell Road
- 210 Arkell Road
- 202 Arkell Road
- 216 Arkell Road
- 220 Arkell Road

Thank-you for your time,

# Arissa Cummings, B.Sc. | Project Manager MTE Consultants Inc.

T: 519-743-6500 x1365 | <u>ACummings@mte85.com</u>

520 Bingemans Centre Drive, Kitchener, Ontario N2B 3X9 <a href="https://www.mte85.com">www.mte85.com</a> | <a href="mailto:Twitter">Twitter</a> | <a href="mailto:LinkedIn">LinkedIn</a>

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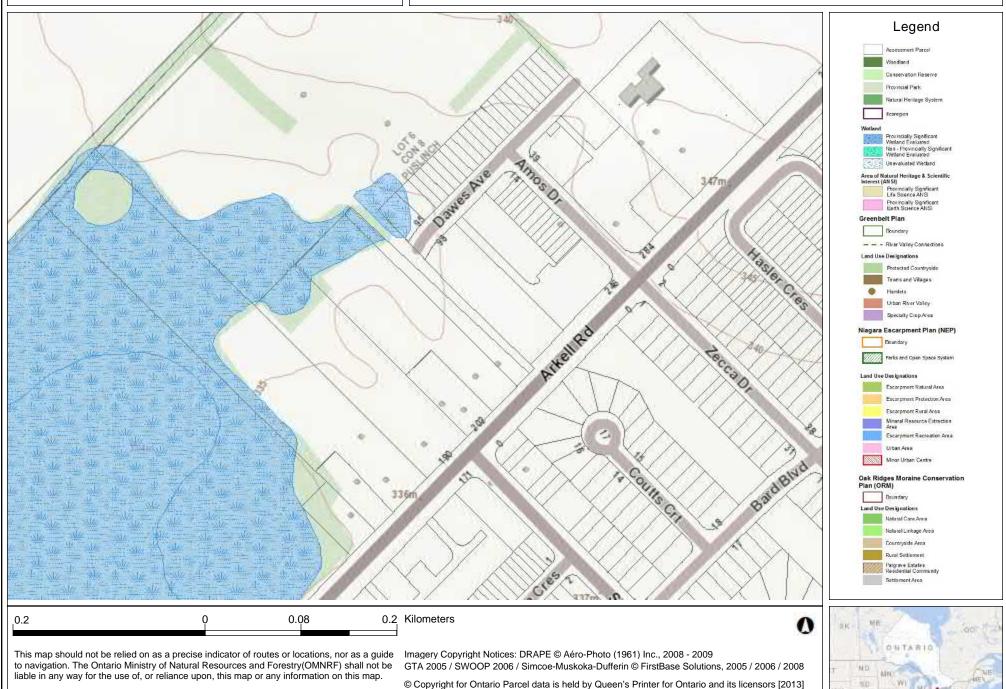
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## 190 - 216 Arkell Road - MNRF

Notes: Enter map notes

NE



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## Ministry of the Environment, Conservation and Parks

Freedom of Information and Protection of Privacy Office

12<sup>th</sup> Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075 Ministère de l'Environnement, de la Protection de la nature et des Parcs

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

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



October 3, 2018

Jessica Sowa MTE Consultants Inc. 520 Bingemans Centre Drive Kitchener, ON N2B 3X9

Dear Jessica Sowa:

RE: Freedom of Information and Protection of Privacy Act Request Our File # A-2018-06529, Your Reference 42063-200

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 190 Arkell Road, Guelph.

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

To conduct a search through the files of the Environmental Assessment and Permissions Branch requires an additional 1 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Assessment and Permissions Branch (EAPB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$30.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <a href="http://www.ontario.ca/environment-and-energy/freedom-information-request-form">http://www.ontario.ca/environment-and-energy/freedom-information-request-form</a>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Assessment and Permissions Branch, the time for answering your request will be extended for an additional 30 days.

## When remitting payment please quote our file number or attach a copy of this letter.

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

If you have any questions regarding this matter, please contact the Freedom of Information Office at 416-314-4075.

Yours truly,

FOR

Janet Dadufalza FOI Manager

## Ministry of the Environment, Conservation and Parks

Freedom of Information and Protection of Privacy Office

12<sup>th</sup> Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075

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

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

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



October 3, 2018

Jessica Sowa MTE Consultants Inc. 520 Bingemans Centre Drive Kitchener, ON N2B 3X9

Dear Jessica Sowa:

RE: Freedom of Information and Protection of Privacy Act Request Our File # A-2018-06531, Your Reference 42063-200

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 202 Arkell Road, Guelph.

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

To conduct a search through the files of the Environmental Assessment and Permissions Branch requires an additional 1 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Assessment and Permissions Branch (EAPB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$30.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <a href="http://www.ontario.ca/environment-and-energy/freedom-information-request-form">http://www.ontario.ca/environment-and-energy/freedom-information-request-form</a>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Assessment and Permissions Branch, the time for answering your request will be extended for an additional 30 days.

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Yours truly,

FOR

Janet Dadufalza FOI Manager

## Ministry of the Environment, Conservation and Parks

Freedom of Information and Protection of Privacy Office

12<sup>th</sup> Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075

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

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

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



October 3, 2018

Jessica Sowa MTE Consultants Inc. 520 Bingemans Centre Drive Kitchener, ON N2B 3X9

Dear Jessica Sowa:

RE: Freedom of Information and Protection of Privacy Act Request Our File # A-2018-06530, Your Reference 42063-200

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 210 Arkell Road, Guelph.

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

To conduct a search through the files of the Environmental Assessment and Permissions Branch requires an additional 1 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Assessment and Permissions Branch (EAPB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$30.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <a href="http://www.ontario.ca/environment-and-energy/freedom-information-request-form">http://www.ontario.ca/environment-and-energy/freedom-information-request-form</a>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Assessment and Permissions Branch, the time for answering your request will be extended for an additional 30 days.

## When remitting payment please quote our file number or attach a copy of this letter.

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If you have any questions regarding this matter, please contact the Freedom of Information Office at 416-314-4075.

Yours truly,

FOR

Janet Dadufalza FOI Manager

## Ministry of the Environment, Conservation and Parks

Freedom of Information and Protection of Privacy Office

12<sup>th</sup> Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075

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

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

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



October 3, 2018

Jessica Sowa MTE Consultants Inc. 520 Bingemans Centre Drive Kitchener, ON N2B 3X9

Dear Jessica Sowa:

RE: Freedom of Information and Protection of Privacy Act Request Our File # A-2018-06528, Your Reference 42063-200

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 216 Arkell Road, Guelph.

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

To conduct a search through the files of the Environmental Assessment and Permissions Branch requires an additional 1 hours. If you would like us to search for Environmental Compliance Approvals/Certificates of Approval at the Environmental Assessment and Permissions Branch (EAPB), please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$30.00. Please note that there is no guarantee any records will be located responsive to your request. Credit card forms are available on the Ministry's website <a href="http://www.ontario.ca/environment-and-energy/freedom-information-request-form">http://www.ontario.ca/environment-and-energy/freedom-information-request-form</a>. Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the search conducted at the Environmental Assessment and Permissions Branch, the time for answering your request will be extended for an additional 30 days.

## When remitting payment please quote our file number or attach a copy of this letter.

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

If you have any questions regarding this matter, please contact the Freedom of Information Office at 416-314-4075.

Yours truly,

FOR

Janet Dadufalza FOI Manager



October 5, 2018

MTE Consultants Inc. 520 Bingemans Centre Dr Kitchener ON N2B 3X9

Dear: Jessica Sowa



#### RE: Environmental Records Review - 210 Arkell Rd, Guelph ON

This letter is in reply to your correspondence dated October 3, 2018 requesting a background search of our records for any environmental infractions and related concerns for the above noted property.

There is no historical data to indicate that this property is a Brownfield Site.

We have found no information that would indicate that this property has been used as a cemetery or landfill.

However, it was found that a sewage spill occurred on May 28, 2004. An unknown amount of sewage was leaking out of a neighbouring septic system, spilling onto the property at 210 Arkell Road. This concern does not fall under the scope of the Sewer Use By-law (1996) 15202 and was forwarded to the Ministry of Environment to be dealt with under the Ontario Water Resource Act and Environmental Protection Act.

You may wish to contact the Ontario Ministry of Environment, Conservation and Parks to inquire if they have any records pertaining to potential environmental contamination for this property.

Sincerely,

Alexandra Marson

CDEN Mirel Ce

Stormwater Service Program Coordinator

Engineering Services

Planning, Engineering and Environmental Services

T 519-822-1260 x 3460

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## **APPENDIX D**

# **INTERVIEW AND INSPECTION REPORT**

### PHASE I ENVIRONMENTAL SITE ASSESSMENT INITIAL INSPECTION REPORT

190
PROJECT NAME: 216 Mell fel - Maje 155A  DATE OF INSPECTION: 09/18/18 to oil 1/18/18 PROJECT NO: . 42063 - 200  COMPLETED BY: MX ( to JMS ) SITE CONTACT TELL RUSSELL  NUMBER OF PHOTOS TAKEN: 103 + adhtered to be released from ADDRESS OF PROPERTY: 20 Arell Rd, Guelph, on
NAME AND ADDRESS OF CURRENT TENANT: Residential 190 Arkell-Mauricio Pezz 202 Arkell-Bri un Bad
PHONE NUMBER:  FAX NUMBER:  DESCRIPTION OF PROPERTY: (i.e. size, layout, terrain, etc.) Residential will grais Approximate Land Area (acreage): 21 hourse 6.3 areas areas at west
Number of Buildings: 4 houses, and achitical graces sheds Building Square Footage: Included from Tocator GIST or goods earth Warehouse Area (storage and distribution): N/A
Manufacturing/Processing/Laboratory Area:
Showroom/Sales/Office Area:
Residential Area:
VISUAL APPEARANCE OF PROPERTY:
190, 202 3 216 - 600d
LIST OF ADJACENT PROPERTIES:  NE 35- Residential From NW-former
W- Wetland / forest golf course
DESCRIPTION OF CURRENT OPERATIONS (INCLUDING 3Rs):
- Rondental
DESCRIPTION OF PAST OPERATIONS (IF AVAILABLE):
- NIA

TYPE OF WAITER SUPPLY COMPO MUNICIPAL (IA damestic will  TYPE OF SANITARY WASTE DISPOSAL SUPPLY SYSTEMS  STORM WATER AND SURFACE WATER HANDLING  NO CATCHDUSTY SYSTEMS  PRESENCE OF FLOOR DRAINS (if present where do they drain?)  PRESENCE OF TRANSFORMERS: HOW MANY?  WHO OWNS? HAVE THEY BEEN TESTED? ARE THEY TAGGED PROPERLY? GENERAL DESCRIPTION (i.e. size, location, etc.)  PRESENCE OF ANY OTHER POTENTIAL PCB ELECTRICAL EQUIPME (i.e. capacitors, switches)  PRESENCE OF MACHINE SHOP  NOTE THE LOCATION, EXTENT, AND CONDITION OF SUSPECTED ASBECONTAINING MATERIALS OBSERVED. FOR EACH TYPE, ESTIMATE THIS SURFACE AREA OR LINER LENGTH:  Sprayed-on Insulation: Roofing Materials: Pipe Wrap: Boiler Insulation: Tark Linings: Celling Tiles: Floor Tile:  Expansion Joint: Thermal Insulation: Spray-on Fire-Proofing Materials:  DOES THE FACILITY DEAL IN BATTERIES? HOW ARE USED BATTERIES DISPOSED? (Review disposal records if o		NOTION THE FOLLOWING SITE FEATURES:
STORM WATER AND SURFACE WATER HANDLING  10 CATCH DIAMY, SHAM WATER JUMP IN PAUL DA.  PRESENCE OF FLOOR DRAINS (if present where do they drain?)  PRESENCE OF TRANSFORMERS: HOW MANY? WHO OWNS? HAVE THEY BEEN TESTED? TEST DATA AVAILABLE? ARE THEY TAGGED PROPERLY? GENERAL DESCRIPTION (i.e. size, location, etc.)  PRESENCE OF ANY OTHER POTENTIAL PCB ELECTRICAL EQUIPME (i.e. capacitors, switches)  PRESENCE OF MACHINE SHOP  NOTE THE LOCATION, EXTENT, AND CONDITION OF SUSPECTED ASBE CONTAINING MATERIALS OBSERVED. FOR EACH TYPE, ESTIMATE THIS SURFACE AREA OR LINER LENGTH:  Sprayed-on Insulation: Roofing Materials: Pipe Wrap: Boiler Insulation: Tank Linings: Ceiling Tiles: Floor Tile: Floor Tile: Expansion Joint: Thermal Insulation: Spray-on Fire-Proofing Materials:  DOES THE FACILITY DEAL IN BATTERIES?	• 1	YPE OF WATER SUPPLY Combo Municipal and damestic wells - see re
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DOES THE FACILITY DEAL IN BATTERIES?	Thern	nal Insulation:
	Spray	r-on Fire-Proofing Materials:₩
		8.
HOW ARE USED BATTERIES DISPOSED? (Review disposal records if o		
N/A	H	OW ARE USED BATTERIES DISPOSED? (Review disposal records if offsite.)
N/A	-	
TV.		NA
7		

•	PRESENCE OF UNDERGROUND/ABOVEGROUND TANKS
	HOW MANY AND TYPE?
	IS NUMBER CONSISTENT WITH OBSERVED SITE FEATURES?
	N/A
	DOES AREA OF TANK(S) SHOW SIGNS OF SURFACE SPILLS?
	WHAT PRODUCTS WERE OR ARE STORED IN TANK(S)?
	WHEN WERE TANK(S) INSTALLED?
HA HA	VE TANK(S) BEEN REGISTERED? (Confirm with records.)
HA (If `	VE ANY TANKS BEEN REMOVED IN THE PAST? YES, identify records of removal, who removed, was removal certified by anyone, s any testing done during removal?)
-	NIA
•	PRESENCE OF EQUIPMENT WASH DOWN AREA? (Where is it?):
: ::	NIA
- V	VERE ORGANIC SOLVENTS EVER USED OR ARE THEY USED NOW? (If YES, identify which ones and where disposed?)
1	ning Misds used in part @ garge @ 216 Argell
DE	No wastes greated
Use	SCRIPTION OF ANY OTHER FEATURES NOT COVERED IN POINTS ABOVE of pesticides: UNKNOWN bdplain:
	oons:
	t placement of fill on the site: Former house demolished at 190 Ancell
	· imported material from I Castlebury Dr

	۷	۷	AS	TΕ	GEN	ERA'	TED	AND	STO	RFC
--	---	---	----	----	-----	------	-----	-----	-----	-----

THE CHENTER TED AND CHOILED	
HOW ARE CUTTINGS AND WASTE	E OIL HANDLED?
GENERATION OF WASTE OILS Of (explain where waste oils generated)	
or holder vehicle mair	HENANCE @ 210 Moll
WHERE ARE WASTE OILS OR OTHE	
removed off site as regul	
ARE THERE SIGNS OF LEAKS OR SP	'ILLS IN STORAGE AREAS?
things oil staining on surface	beneath toucher in shed @ 210 Annel
HOW AND WHERE ARE WASTES DIS	SPOSED OF? (Review disposal records)
reportedly reproved off-site	-no records
HOW ARE WASTES STORED ON-SIT	E?
Storage	Waste
Drums - only for qual for for	her animora
ASI	10 11
UST	
Surface impoundment	
Waste piles	
Dumpsters	V
Other - description pails	waste oil from lawn nower
INSPECTION OF PROPERTY (Wells on	
<ul> <li>INSPECTION OF PROPERTY (Walk er</li> <li>PRESENCE OF WASTE MATERIAL scrap metal, drums, garbage, batterie</li> </ul>	S DISPOSED OF OR STORED ON SITE i.e.
Scrap metal knowd from	old shicknes Next to gazy &

Minor staining of diverge and on grave divergence.
Pour beneath meter of 200 Aprell
EVIDENCE OF ANY IMPACT CAUSED BY SURFACE RUN-ON OR DISPOSAL FROM ADJACENT PROPERTIES
None observed
GROUNDWATER USAGE: ON SITE WELLS? YES HOW MANY? See vego A. COMPLETION DEPTH: See vego A.
WATER QUALITY INFO AVAILABLE? Yes Sel 16pol
AIR QUALITY: Odours noted
ENVIRONMENTAL COMPLAINTS OR SPILLS: Spills and spill response
MOE
PERSONS INTERVIEWED (Title & Phone #): Tea Russell of Cresclat Homes
and tenants ( 210 190 trell - see most
-IMITATIONS (i.e. snow cover, inaccessible areas, locked rooms, etc.)
Did not access basement & gazy 201 Arcell Fd
Myonsanz
· Small area a forested area west and
190 Azell Rd

## **AIR EMISSIONS**

MA

	Operation	All Materials/ Wastes Used	Known Emission Contaminant s	Method of Discharge (Stack, Fan, etc.)	Permit Obtained From Provincial or Other Agency (Y or N)
-	N/A -				$\rightarrow$
	NIA				<del></del>

### **AVAILABLE DOCUMENTATION:**

<u></u>	Current site plan	V NI VNI/A
_	Historic site plans	V NIX/N/A
_	Reported results of tank integrity testing	V N N/A
_	Applicable documentation – leaks or spills from storage tanks	1-N-N/A
	Material Sefety Data Sheets (MSDS)	Y N N/A
	Material Safety Data Sheets (MSDS)	Y_ N_ N/A
-	Certificates of Approval	Y N N/A
A.570	Applicable correspondence and notices and work	
	orders – regulatory agency	Y N N/A
(#)	MOE acknowledgement of subject waste registration	Y N N/A
-	Waste shipment manifest records	Y N N/A
-	Waste audit	Y N N/A
	Spill prevention, containment and countermeasures plan	Y N N/A
-	Applicable reports or correspondence pertaining to	
	previous environmental evaluation or remediation,	
	hydrogeologic investigation, or geotechnical study	Y_N_ N/A
+	Applicable construction pit/boring logs or well	
	construction logs	VI NI NI/A
_	Notices of Violations, a/o correspondence pertaining	'- '\- '\/\_
	to violation of environmental law, legal proceedings	V NI NI/A
_	Asbestos Survey/Management plan	Y N N/A
		YN_N/A
•	PCB Inventory or Storage Documentation	Y N N/A
•	Permits – AST, UST	Y N N/A
-	Reports of Releases of hazardous materials or oil	Y N N/A
-	Insurance risk survey	Y N N/A

MTE Consultants Inc. Project No.:
Phase I ESA Interview Questions Client:
Phase I Site Address: 190 Arkell Rd Queph
Name of Interview Candidate: Teel Russe (
Title Project Manager Date: 10/01/18
Relationship/How long with company? 3 Years
1. Who is the current owner/tenant of the Site? How long have they owned/leased?
Crescent Homes
2. Who is the previous owner of the Site? Who is the previous tenant of the Site?  Ramon Perez
3. Have any major renovations been conducted? Demolition of buildings/structures?
No
4. Are any water wells located on the property? If so, is the driller's well log available? How deep is the well?
Yes Front yard. Depth unknown
5. Are any septic beds located on the property? Are permits available?
Yes, West side of house
6. Are there any problems with Site drainage? Has there ever been any flooding in the basement, building or external area of the property? Any issues with roof leaks?  Some basement flooding controlled
by sums pits and pumps

7. Are there any easements on the property (hydro, gas, telephone, etc.)?



8. Has dust control ever been used on the property? If so, what was used?

Not to my knowledge

 Has salt or other de-icing chemicals been used for winter maintenance of walkways or parking areas? If yes, please describe storage and application practices.

Not to my knowledge

10. Are there any transformers located on the property? If so, who owns them?

NO

11. Are there any aboveground storage tanks located on the Site? Have any been removed in the past? If so, when, what size and what did it contain?

100

12. Are there any underground storage tanks located on the Site? Have any been removed in the past? If so, when, what size and what did it contain?

No

13. Are there any fuel pumps or fuelling systems on the Site? Have any been removed in the past?

Da

14. Have any pesticides/herbicides/sludge ever been applied to the Site? If so, when, and what products?

Not to my knowledge

15. Are there any noise or odours problems from the Site to your neighbours or from the surrounding neighbouring properties to your Site?

No

16. Is there chemical/solvent storage on Site? Which chemicals/method of storage?

No

17. How is solid waste stored and disposed?

In garage picked up by city weekly

18. Is any vehicle maintenance performed on the Site currently or in the past? How are the waste vehicle fluids dealt with?

None

19. Are any liquid industrial wastes generated at the Site? If so, how are they disposed of?

Done

20. Does any equipment, vehicle or plant floor wash down occur on the Site currently or in the past?

NO

21. Was the Site ever used for agricultural purposes? If so, approximately what years and what crops?

No

22. When was the Site developed? Has the building ever been heated with fuel oil (furnace oil)?

No

23. Have any chemical/oil spills occurred? How are spills handled? Are spill kits available? Do employees have Spill Response training?

MA

24. Are Material Safety Data Sheets (MSDS) available for any chemical compounds used on the Site?

N/A

25. Is there a Joint Health and Safety Committee? Do they have any outstanding environmental concerns?

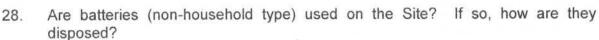
NIA

26. Are there any outstanding regulatory compliance issues (such as zoning, labour or environment) with the Site? Have there been any in the past?

No

27. Is there any asbestos, lead, UFFI or PCB containing materials on the Site? Have any been removed in the past?





No

29. Have any other inspections occurred on the Site (i.e. Ministry of Labour, Ministry of the Environment, Township/Municipality, Insurance agency, etc.) Any other environmental reports completed for the Site?

No

30. Any other problems with the neighbouring properties such as chemical storage, contamination, etc?

No

31. Are any waste oils generated/stored on Site? If so, how are these wastes stored and disposed of? Is there an oil-water separator?

100

32. Are there any hoists on the Site? If so are the above ground or in ground and how are they powered?

No

33. Have there been any fires or do you burn or incinerate anything?

No

34. Are there any areas of mould/water damage in the building?

No

35. Has any waste been dumped on the property? Has any soil or fill from an unknown source been deposited on the Site?



36. Are there any concerns related to indoor air quality in the building?



37. Do you have any stack emissions, fugitive air emissions? Do you have a Certificate of Approval (Air) issued by the Ontario Ministry of the Environment?



38. Is there another person we should contact for additional information?



The above information is a true representation of my knowledge of the Site and operations. I understand that this information will be reviewed by MTE and compiled in the Phase I ESA report.

Are there any additional comments related to environmental matters that you have?

Signature of Interviewed Candidate:

MTE Consultants Inc.  Phase I ESA Interview Questions  Project No.:  Client:	
Phase I Site Address: 20 Arkell Rd Guelph	<b>/</b>
Name of Interview Candidate: 12d Russell	
Title Project Manager Date: 10/01/18	
Relationship/How long with company? 3 years	
1. Who is the current owner/tenant of the Site? How long have they owned/leased?	
Bob + Anna Elgie: Tenant Nitin Jain: Ou	ner
2. Who is the previous owner of the Site? Who is the previous tenant of the Site?	
Elia and Ororina Favaro	
3. Have any major renovations been conducted? Demolition of buildings/structures?	į.
$N_{0}$	
4. Are any water wells located on the property? If so, is the driller's well log available? How deep is the well?	l
Municipal wate	
5. Are any septic beds located on the property? Are permits available?	
ies behind house	
6. Are there any problems with Site drainage? Has there ever been any flooding in the basement, building or external area of the property? Any issues with roof leaks?	i f

7. Are there any easements on the property (hydro, gas, telephone, etc.)?

No

8. Has dust control ever been used on the property? If so, what was used?

Not to my Knowledge

 Has salt or other de-icing chemicals been used for winter maintenance of walkways or parking areas? If yes, please describe storage and application practices.

Not to my knowledge

10. Are there any transformers located on the property? If so, who owns them?

NO

11. Are there any aboveground storage tanks located on the Site? Have any been removed in the past? If so, when, what size and what did it contain?

NO

12. Are there any underground storage tanks located on the Site? Have any been removed in the past? If so, when, what size and what did it contain?

No

13. Are there any fuel pumps or fuelling systems on the Site? Have any been removed in the past?

No

Have any pesticides/herbicides/sludge ever been applied to the Site? If so, 14. when, and what products?

Not to my knowledge

Are there any noise or odours problems from the Site to your neighbours or from 15. the surrounding neighbouring properties to your Site?

Is there chemical/solvent storage on Site? Which chemicals/method of storage? 16.

17. How is solid waste stored and disposed?

Stored ingarage collected by city weekly

Is any vehicle maintenance performed on the Site currently or in the past? How 18. are the waste vehicle fluids dealt with?

Personal vehicle maintenance
fluids taken for recycling
Are any liquid industrial wastes generated at the Site? If so, how are they

19. disposed of?

No

Does any equipment, vehicle or plant floor wash down occur on the Site 20. currently or in the past?

21. Was the Site ever used for agricultural purposes? If so, approximately what years and what crops?

Personal altalla crop 20 years ago

22. When was the Site developed? Has the building ever been heated with fuel oil (furnace oil)?

No

23. Have any chemical/oil spills occurred? How are spills handled? Are spill kits available? Do employees have Spill Response training?

MA N/A

24. Are Material Safety Data Sheets (MSDS) available for any chemical compounds used on the Site?

NIA

25. Is there a Joint Health and Safety Committee? Do they have any outstanding environmental concerns?

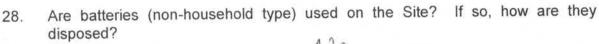
NIA

26. Are there any outstanding regulatory compliance issues (such as zoning, labour or environment) with the Site? Have there been any in the past?

 $N_0$ 

27. Is there any asbestos, lead, UFFI or PCB containing materials on the Site? Have any been removed in the past?

No



NO

29. Have any other inspections occurred on the Site (i.e. Ministry of Labour, Ministry of the Environment, Township/Municipality, Insurance agency, etc.) Any other environmental reports completed for the Site?



30. Any other problems with the neighbouring properties such as chemical storage, contamination, etc?



31. Are any waste oils generated/stored on Site? If so, how are these wastes stored and disposed of? Is there an oil-water separator?



32. Are there any hoists on the Site? If so are the above ground or in ground and how are they powered?



33. Have there been any fires or do you burn or incinerate anything?



34. Are there any areas of mould/water damage in the building?



35.	Has any	waste	been	dumped	on	the	property?	Has	any	soil	or	fill	from	an
	unknown	source	been	deposited	d or	the	Site?							

100

36. Are there any concerns related to indoor air quality in the building?

No

37. Do you have any stack emissions, fugitive air emissions? Do you have a Certificate of Approval (Air) issued by the Ontario Ministry of the Environment?

NG

38. Is there another person we should contact for additional information?

No

The above information is a true representation of my knowledge of the Site and operations. I understand that this information will be reviewed by MTE and compiled in the Phase I ESA report.

Are there any additional comments related to environmental matters that you have?

Signature of Interviewed Candidate:

Phas	Consultants Inc. Project No.: e I ESA Interview Questions Client:
Phase	el Site Address: 202 Arkell Rd Guelph
	of Interview Candidate: Ted Russell
Title_	Project Manager Date: 10/01/18
Relati	onship/How long with company? 3 Year 5
1.	Who is the current owner/tenant of the Site? How long have they owned/leased?
	Brian and Margaret Bard, 30 yrs
2.	Who is the previous owner of the Site? Who is the previous tenant of the Site?
	Unknown
3.	Have any major renovations been conducted? Demolition of buildings/structures?
	Intersor renovations of house
4.	Are any water wells located on the property? If so, is the driller's well log available? How deep is the well?
	Municipal water
5.	Are any septic beds located on the property? Are permits available?
	Yes, back yard, no permits avail
6.	Are there any problems with Site drainage? Has there ever been any flooding in the basement, building or external area of the property? Any issues with roof leaks?

7. Are there any easements on the property (hydro, gas, telephone, etc.)?



8. Has dust control ever been used on the property? If so, what was used?



 Has salt or other de-icing chemicals been used for winter maintenance of walkways or parking areas? If yes, please describe storage and application practices.



10. Are there any transformers located on the property? If so, who owns them?



11. Are there any aboveground storage tanks located on the Site? Have any been removed in the past? If so, when, what size and what did it contain?



12. Are there any underground storage tanks located on the Site? Have any been removed in the past? If so, when, what size and what did it contain?



13. Are there any fuel pumps or fuelling systems on the Site? Have any been removed in the past?



14. Have any pesticides/herbicides/sludge ever been applied to the Site? If so, when, and what products?

Not to my knowledge

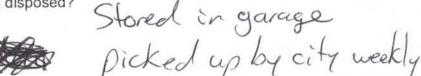
15. Are there any noise or odours problems from the Site to your neighbours or from the surrounding neighbouring properties to your Site?

NO

16. Is there chemical/solvent storage on Site? Which chemicals/method of storage?

No

17. How is solid waste stored and disposed?



18. Is any vehicle maintenance performed on the Site currently or in the past? How are the waste vehicle fluids dealt with?

No

19. Are any liquid industrial wastes generated at the Site? If so, how are they disposed of?

 $N_6$ 

20. Does any equipment, vehicle or plant floor wash down occur on the Site currently or in the past?



21. Was the Site ever used for agricultural purposes? If so, approximately what years and what crops?



22. When was the Site developed? Has the building ever been heated with fuel oil (furnace oil)?



23. Have any chemical/oil spills occurred? How are spills handled? Are spill kits available? Do employees have Spill Response training?



24. Are Material Safety Data Sheets (MSDS) available for any chemical compounds used on the Site?



25. Is there a Joint Health and Safety Committee? Do they have any outstanding environmental concerns?



26. Are there any outstanding regulatory compliance issues (such as zoning, labour or environment) with the Site? Have there been any in the past?



27. Is there any asbestos, lead, UFFI or PCB containing materials on the Site? Have any been removed in the past?



- 28. Are batteries (non-household type) used on the Site? If so, how are they disposed?
- 29. Have any other inspections occurred on the Site (i.e. Ministry of Labour, Ministry of the Environment, Township/Municipality, Insurance agency, etc.) Any other environmental reports completed for the Site?

100

30. Any other problems with the neighbouring properties such as chemical storage, contamination, etc?

100

31. Are any waste oils generated/stored on Site? If so, how are these wastes stored and disposed of? Is there an oil-water separator?

100

32. Are there any hoists on the Site? If so are the above ground or in ground and how are they powered?

No

33. Have there been any fires or do you burn or incinerate anything?

NO

34. Are there any areas of mould/water damage in the building?

Do

35. Has any waste been dumped on the property? Has any soil or fill from an unknown source been deposited on the Site?



36. Are there any concerns related to indoor air quality in the building?



37. Do you have any stack emissions, fugitive air emissions? Do you have a Certificate of Approval (Air) issued by the Ontario Ministry of the Environment?



38. Is there another person we should contact for additional information?



The above information is a true representation of my knowledge of the Site and operations. I understand that this information will be reviewed by MTE and compiled in the Phase I ESA report.

Are there any additional comments related to environmental matters that you have?

Signature of Interviewed Candidate:

MTE Consultants Inc. Phase I ESA Interview Questions	Project No.: Client:	
Phase I Site Address: 216 ARKELL R.D GUELPH ONT. NILIEL		
Name of Interview Candidate: HEPB	VAHORRIDO	) <u></u>
Title TENANT	Date: SEPT	14, 2018
Relationship/How long with company?		
1. Who is the current owner/tenant of the Site of Herry Vancers on Leasen and Secondarian States  2. Who is the previous owner of the Site? Who Herry Vancers of the Site? Who have any major renovations been conducted.  No	2 1/25 33 1/25 o is the previous te	CLESCENT HOVEN  HOMES OWNER  mant of the Site?  uildings/structures?
4. Are any water wells located on the property available? How deep is the well?	erty? If so, is th	1
SISTERY JUELL IN BA	SEMENT	- Municipal
5. Are any septic beds located on the property? Arè permits available?		
YES NO PER	MITS	

6. Are there any problems with Site drainage? Has there ever been any flooding in the basement, building or external area of the property? Any issues with roof

FLOODING IN BASEMENT

leaks?

7. Are there any easements on the property (hydro, gas, telephone, etc.)?

YES TO ALL 3

8. Has dust control ever been used on the property? If so, what was used?

No

 Has salt or other de-icing chemicals been used for winter maintenance of walkways or parking areas? If yes, please describe storage and application practices.

SAFETY SALT STORED IN BREEN SEALED CONTAINER

10. Are there any transformers located on the property? If so, who owns them?

No

11. Are there any aboveground storage tanks located on the Site? Have any been removed in the past? If so, when, what size and what did it contain?

No

12. Are there any underground storage tanks located on the Site? Have any been removed in the past? If so, when, what size and what did it contain?

No

13. Are there any fuel pumps or fuelling systems on the Site? Have any been removed in the past?

No

14. Have any pesticides/herbicides/sludge ever been applied to the Site? If so, when, and what products?



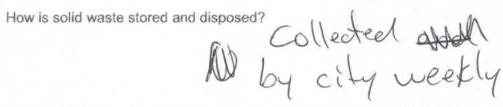
15. Are there any noise or odours problems from the Site to your neighbours or from the surrounding neighbouring properties to your Site?



Is there chemical/solvent storage on Site? Which chemicals/method of storage? 16.



17.



Is any vehicle maintenance performed on the Site currently or in the past? How are the waste vehicle fluids dealt with?

19. Are any liquid industrial wastes generated at the Site? If so, how are they disposed of?



20. Does any equipment, vehicle or plant floor wash down occur on the Site currently or in the past?



21. Was the Site ever used for agricultural purposes? If so, approximately what years and what crops?

NOT TO MY KNOWLEDGE

22. When was the Site developed? Has the building ever been heated with fuel oil (furnace oil)?

NO IDEA

23. Have any chemical/oil spills occurred? How are spills handled? Are spill kits available? Do employees have Spill Response training?

NOT WHILE I HAVE BEEN LIVING HERE

24. Are Material Safety Data Sheets (MSDS) available for any chemical compounds used on the Site?

NO

25. Is there a Joint Health and Safety Committee? Do they have any outstanding environmental concerns?

NIA

26. Are there any outstanding regulatory compliance issues (such as zoning, labour or environment) with the Site? Have there been any in the past?

NA

27. Is there any asbestos, lead, UFFI or PCB containing materials on the Site? Have any been removed in the past?

NOT TO MY KNOWLEDGE

- 28. Are batteries (non-household type) used on the Site? If so, how are they disposed?
- 29. Have any other inspections occurred on the Site (i.e. Ministry of Labour, Ministry of the Environment, Township/Municipality, Insurance agency, etc.) Any other environmental reports completed for the Site?

INSURANCE DUE TO FLOOD & ELECTRICAL FIRE OUTSIDE

30. Any other problems with the neighbouring properties such as chemical storage, contamination, etc?

NO IDEA

31. Are any waste oils generated/stored on Site? If so, how are these wastes stored and disposed of? Is there an oil-water separator?

NIA

32. Are there any hoists on the Site? If so are the above ground or in ground and how are they powered?

NIA

33. Have there been any fires or do you burn or incinerate anything?

NO

34. Are there any areas of mould/water damage in the building?

BASEMENT FROM NUMEROUS FLOOPS

35. Has any waste been dumped on the property? Has any soil or fill from an unknown source been deposited on the Site?

NOT TO MY KNOWLEDGE

36. Are there any concerns related to indoor air quality in the building?

No

37. Do you have any stack emissions, fugitive air emissions? Do you have a Certificate of Approval (Air) issued by the Ontario Ministry of the Environment?

NIA

38. Is there another person we should contact for additional information?



The above information is a true representation of my knowledge of the Site and operations. I understand that this information will be reviewed by MTE and compiled in the Phase I ESA report.

Are there any additional comments related to environmental matters that you have?

Signature of Interviewed Candidate:



## **APPENDIX E**

# **PHOTOGRAPHIC LOG**

#### **PHOTOGRAPHIC LOG**



Photograph No. 1 – View of sump drainage from 216 Arkell Road in to storm sewer catch basin on Arkell Road.



Photograph No. 2 – View of one stock pile, facing west toward the western property line.



Photograph No. 3 – Additional view of one stock pile, facing south toward the southern property line.



Photograph No. 4 – View of open excavation located to the west of the shed at 210 Arkell Road.



Photograph No. 5 – Front view of the shed in the backyard of 216 Arkell Road. The shed housed equipment for handcrafted furniture.



Photograph No. 6 – View of the front of the shed in the backyard at 202 Arkell Road. The shed housed garden and lawn supplies.



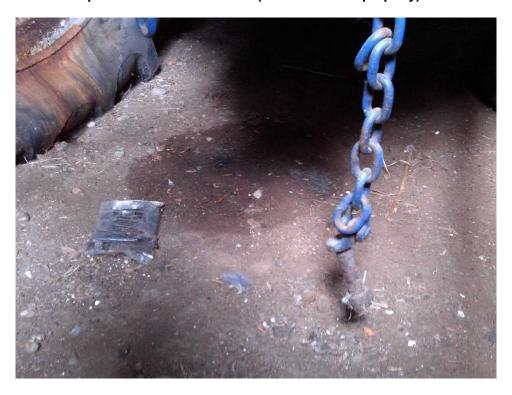
Photograph No. 7 – View of southern wall of the shed located at 210 Arkell Road. The shed was used as a personal vehicle shop and former chicken coop. A monitoring well installed by PML in 2017 is visible in the foreground.



Photograph No. 8 – View of the metal and wood waste storage located east of the shed at 210 Arkell Road.



Photograph No. 9 – View of potential former storage area/waste area, located in the forested portion of 210 Arkell Road (west end of the property).



Photograph No. 10 – View of the minor staining observed beneath the tractor on the bare ground of the shed at 210 Arkell Road.