# REPORT TO CITY OF GUELPH

# PHASE ONE ENVIRONMENTAL SITE ASSESSMENT 200 BEVERLEY STREET GUELPH, ONTARIO

# Prepared by:

# **DECOMMISSIONING CONSULTING SERVICES**

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February 2014

701996-001







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701996-001

11 February 2014

City of Guelph 1 Carden Street Guelph, Ontario N1H 3A1

Attention: Mr. Prasoon Adhikari, M.Sc., P.Eng., QP<sub>ESA</sub>

**Environmental Engineer** 

Re: Phase One Environmental Site Assessment

200 Beverley Street Guelph, Ontario

Dear Mr. Adhikari:

Decommissioning Consulting Services (DCS) is pleased to provide the following report on the completion of a Phase One Environmental Site Assessment (ESA) of the property located at 200 Beverley Street in Guelph, Ontario.

The Phase One ESA has identified the potential for impacted soil and groundwater to be underlying the subject property resulting from the presence of fill soils of unknown origin across the site; the former presence of a underground storage tank (UST) at the northeast corner of the site; former capacitor room; former sand mixer and foundry sumps; former maintenance garage; former core room, boiler and power house; the former storage of PCBs; the use adjacent lands as a rail way and for the storage of bulk chemicals.

It is recommended that a Phase Two ESA be completed at the site to address these concerns and that the soil and groundwater be tested for metals, petroleum hydrocarbons (PHCs), BTEX (benzene, toluene, ethylbenzene and xylenes), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs).

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We trust that the enclosed report is suitable for your current requirements. If you have any questions or require further information, please do not hesitate to contact us.

Yours very truly,

### **DECOMMISSIONING CONSULTING SERVICES**

Richard Browne, M.A.Sc., P.Eng.

Senior Vice President

Stephen R. Prior, P.Eng. Senior Project Manager

**Tu-Anh Nguyen, M.Eng.** Environmental Specialist

Encl.

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#### 1.0 EXECUTIVE SUMMARY

Decommissioning Consulting Services Limited (DCS) has been retained by the City of Guelph to complete a Phase One Environmental Site Assessment (ESA) at 200 Beverley Street, Guelph, Ontario. It should be noted that for the purposes of this report, "Phase I" and "Phase One" as well as "Phase II" and "Phase Two" are used interchangeably.

The Phase One property, approximately 52,000 square meters (m<sup>2</sup>) in area, is currently owned by the City of Guelph. The site is bounded by Guelph Rail Line to the north, Kingsmill Avenue to the east, Beverley Street to the south, and Stevenson Street South to the west. The Phase One Study Area includes the site and surrounding properties within 250 metres of the site boundaries. The Phase One Study Area is bound by Guelph Rail Line and a bulk chemical warehouse facility to the north, just east of Victoria Street to the east, York Road to the south and Morris Street to the west.

The purpose of the investigation was to assess the existing site conditions from an environmental perspective and to identify the presence of potential environmental concerns that might affect the continued or future use of the site.

The Phase One ESA included a review of previous environmental reports concerning the site; a review of historical information including aerial photographs, Ontario Ministry of the Environment (MOE) documents, fire insurance plans, chain of title information and numerous historical databases; a site reconnaissance; and preparation of a report summarizing the results of the investigation and making recommendations for further investigations at the site.

International Malleable Iron Company (IMICO) purchased the site at 200 Beverley Street in 1912 for development as a foundry. No evidence of previous commercial or industrial land use has been found. The foundry operated as an iron-jobbing facility for the production of various metallic forms using malleable and ductile iron. The site was vacant at the time of the inspection and is slated for redevelopment by the City of Guelph.

Preliminary site assessments were completed by Proctor and Redfern (P&R) in 1989 and 1991. In the 1989 report, P&R made seventeen recommendations to characterize and delineate contaminants at the property as well as disposal and/or storage of polychlorinated biphenyl (PCB)-containing equipment and materials. In 1991, P&R brought forth remediation options and provided a preliminary site remediation cost estimate following an intrusive program consisting

55 test pits, 16 core samples, and the installation of 5 groundwater observation wells. The site has been under MOE Director's Order since 1994. A hydrogeologic study to gain understanding of groundwater flow at the property has been carried out, in addition to the remediation of sumps and a PCB storage area. Furthermore, the former IMICO building was demolished in 1999. A Phase I ESA and a Phase II ESA were carried out by DCS in 2007. The intrusive investigation found soil and groundwater impacted by metals across the property and impacts from petroleum hydrocarbons (PHCs), PCBs, polycyclic aromatic hydrocarbons (PAHs), and volatile organic compounds (VOCs) present in three main areas, the eastern side of the property, in the vicinity of the former power house and capacitor room, and in the vicinity of the former maintenance garage, with occasional occurrences elsewhere.

Potentially contaminating activities (PCAs) identified at the site include:

- Historic placement of fill of unknown origin across the site.
- Former underground storage tank in the northeast corner of the site.
- Former iron and steel manufacturing and processing
- Former metal treatment, coating, and finishing
- Historic use and storage of PCBs.

Potentially contaminating activities in the Phase One Study Area include:

- Chemical manufacturing, processing, and bulk storage
- Rail yard, tracks, and spurs.

APECs resulting from these PCAs include the fill soils across the site, the subsurface soil and groundwater underlying the site.

Potential contaminants of concern associated with these PCAs include metals, petroleum hydrocarbons, BTEX compounds, polychlorinated biphenyls, polycyclic aromatic hydrocarbons, and volatile organic compounds. Media potentially impacted includes the soil and groundwater underlying the site.

It is recommended by DCS that a Phase Two Environmental Site Assessment be carried out on the site before submission of a Record of Site Condition (RSC).

#### 2.0 INTRODUCTION

### 2.1 Phase One Property Information

Decommissioning Consulting Services (DCS) was retained by the City of Guelph to conduct a Phase One Environmental Site Assessment (ESA) of the property located at 200 Beverley Street in the City of Guelph.

The site is located on the north side of Beverley Street, east of Stevens Street South. At the time of the inspection the site was vacant. This property was formerly occupied by the International Malleable Iron Company (IMICO). The buildings were demolished in 1999.

The work was completed as part of an evaluation of the property in preparation for its redevelopment. Future property use may include residential, institutional, parkland and commercial activities. The location of the site is shown on the Key Plan in Figure 1, which follows page 2-1 and on DCS Drawing  $N^{0}$  701996-001-1, entitled *Site Plan*, provided in Appendix A.

The site is currently owned by the City of Guelph. The service address for the owner is provided below:

City of Guelph 1 Carden Street Guelph, Ontario N1H 3A1

The contact information for the City of Guelph is provided below:

Mr. Prasoon Adhikari, M.Sc., P.Eng., QP<sub>ESA</sub> City of Guelph 1 Carden Street Guelph, Ontario N1H 3A1

A Plan of Survey should be appended to this report should it be submitted to support the application of a Record of Site Condition (RSC).

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Project No. 701996-000-001

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PHASE I ESA
KEY PLAN

FIGURE 1

### 3.0 SCOPE OF INVESTIGATION

The scope of work for the assessment included:

- i) a review of any previous environmental reporting concerning the site;
- ii) a review of historical data in order to identify potentially contaminating activities on the site and on adjacent properties, through an evaluation of past land use;
- iii) a site reconnaissance and preliminary examination of the property to document the presence of readily observable wastes, staining, plant kills or other readily observable evidence of contamination that might be present;
- iv) interviews with current, and where available, past tenants or employees at the facility; and,
- v) preparation of a report on the results of the work undertaken, including provision of recommendations for additional investigations as may be required.

DCS conducted a review of records and files including computer databases and aerial photographs.

The survey included:

- a review of title information provided by the City of Guelph;
- a review of historical aerial photographs dated 1930, 1964, 1972, 1981, 1990, and 1995 from the National Air Photo Library, an aerial photograph dated 2006 from Google Earth;
- a review of DCS' 2007 correspondence with CGI Information Systems and Management Consultants Inc. (CGI) Historical Environmental Reporting System (HEIRS®) for acquisition of historical fire insurance mapping, reports and site specific plans;
- correspondence with EcoLog Environmental Risk Information Services (ERIS) Ltd.;
- correspondence with the Technical Standards & Safety Authority (TSSA) Fuels Safety Branch;
- a review of the Ontario Ministry of Environment's (MOE) *Brownfields Environmental Site Registry*, under Part XV.I of the Environmental Protection Act (O.Reg. 153/04 Records of Site Condition);
- a review of the MOE's *Environmental Registry*, under the 1994 Province of Ontario Environmental Bill of Rights (EBR);

- a review of the MOE's *Hazardous Waste Information Network* (HWIN) database (O.Reg. 347 General Waste Management);
- a review of the Ontario Ministry of Natural Resource's (MNR) database of species at risk;
- a review of the City of Guelph's *Natural Heritage Strategy* for Areas of Natural and Scientific Interest (ANSI);
- a review of the MOE Waste Disposal Site Inventory, dated June 1991;
- a review of the MOE *Inventory of Coal Gasification Plant Waste Sites in Ontario*, dated 1987; and
- submission of a freedom of information (FOI) request form to the MOE.

This report has been prepared on the basis of our observations in the field, results of a historical review and on information made available to our staff by the client. This report constitutes a preliminary assessment of site conditions, intended to address readily-evident issues and to identify such potential concerns as may warrant further study. As such, the study did not include subsurface investigation work.

#### 4.0 RECORDS REVIEW

#### 4.1 GENERAL

### 4.1.1 Phase One Study Area Determination

The Phase One study area includes the site and surrounding properties within 250 metres of the site boundaries. The Phase One Study Area is bound by Guelph Rail Line and a bulk chemical warehouse facility to the north, just east of Victoria Street to the east, York Road to the south and just shy of Morris Street to the west. The Phase One Study Area is shown on the Site Plan in DCS Drawing No. 701996-001-1 (Appendix A).

### **4.1.2** First Developed Use Determination

IMICO purchased the site at 200 Beverley Street in 1912 for development as a foundry. No evidence of previous commercial or industrial land use has been found. The foundry operated as an iron-jobbing facility for the production of various metallic forms using malleable and ductile iron.

#### 4.1.3 Fire Insurance Plans

CGI was contacted and requested to review their files for any information available on the subject property as part of the DCS 2007 Phase I ESA. DCS was advised that CGI has no fire insurance plans (FIP) available for the site. As no new developments have occurred at the property, no new FIPs were requested.

The December 2006 letter from CGI advising is provided in Appendix D at the rear of this report.

One FIP for 1960 was located in the City of Toronto Reference Library. The FIP indicated that there were numerous buildings on the site. Coal and sand were stored in the central portion of the site. An underground storage tank (UST) was identified in the northeastern portion of the property. The FIP also indicated the adjacent lands east and northeast of the property were occupied by a stove manufacturer. The operation included machine shops, an enamelling building, presses and assembly operations. No other FIPs were available for this area of Guelph in the Toronto Reference Library.

#### 4.1.4 Chain of Title

According to available land title information the subject property is legally described as:

Part of Lot 2, Division F, Concession III, Guelph, County of Wellington

A review of the available information provided by the City of Guelph indicates that the property was initially purchased by the IMICO in approximately 1912 when the company was formed. The property was sold to Mr. John H. Long on April 10, 1992 and subsequently sold to the Assembly of the Church of the Universe on December 31, 1993. The property was transferred to the City of Guelph on May 5, 1997 as consideration for the non-payment of taxes and has remained in the possession of the City of Guelph since that time.

A chronological event timetable showing previous owners and dates of ownership at the Phase One property back to the purchase of the property, as supplied by the City of Guelph, is provided in Appendix F.

### **4.1.5** Environmental Reports

DCS reviewed the following reports relating to the subject property:

Sections of "Environmental Investigations, Report Recommendations", prepared for International Malleable Iron Company Limited by Proctor & Redfern Limited (P&R), dated August 1989.

"Draft Environmental Investigation, International Malleable Iron Company, 200 Beverley Street, Guelph, Ontario", prepared for the Bank of Montreal by P&R, dated 10 June 1991.

"Final Draft for Discussion, Hydrogeologic Site Investigation, Former IMICO Foundry Site, Guelph, Ontario", prepared for the City of Guelph by Gartner Lee Limited (Gartner Lee), dated August 1998.

"Supplemental Hydrogeologic Investigation, Former IMICO Site", prepared for the City of Guelph by Gartner Lee, dated March 1999.

"City of Guelph, Former IMICO Facility, Demolition and Waste Removal Report", prepared for the City of Guelph by Earth Tech (Canada) Inc. (Earth Tech), dated October 1999.

Additionally, DCS reviewed a letter (*Progress Report #6*) from the City of Guelph to the MOE dated 23 August 2001, a letter (*Progress Report #7*) from the City of Guelph to the MOE date 6 March 2002 and a technical memorandum ("Summary of Environmental Conditions and Resultant Redevelopment Constraints at 200 Beverley Street, Guelph") prepared by CH2M HILL Canada Limited dated 13 November 2003.

"Phase I Environmental Site Assessment, Former IMICO Property, 200 Beverley Street, Guelph, Ontario", prepared for the City of Guelph by DCS dated December 2007.

"Phase II Environmental Site Assessment, Former IMICO Property, 200 Beverley Street, Guelph, Ontario", prepared for the City of Guelph by DCS dated December 2007.

"Preliminary Remedial Action Plan, Former IMICO Property, 200 Beverley Street, Guelph, Ontario", prepared for the City of Guelph by DCS dated March 2008.

"2011 Annual Groundwater Monitoring Report, Former IMICO Site, 200 Beverley Street, Guelph, Ontario", prepared for the City of Guelph by AECOM dated August 2013.

#### P&R Environmental Investigation, August 1989

P&R was retained by IMICO to perform an environmental investigation of its property located at 200 Beverley Street in Guelph, Ontario. P&R collected surface and near surface soil samples, swab samples for the analysis of polychlorinated biphenyls (PCBs), nitric acid swap samples for the analysis of heavy metals, and dust samples for the analysis of heavy metals. Results of the analysis performed found heavy metals contamination, namely cadmium, hexavalent chromium, and zinc, exceeding applicable criteria by up to 20 times. In addition to high oil and grease concentrations, polycyclic aromatic hydrocarbons (PAHs) were also found. Seventeen recommendations were made by P&R to IMICO to characterize and delineate the contaminants at the property as well as disposal and/or storage of PCB-containing equipment and materials.

### P&R Environnemental Investigation, June 1991

P&R was retained by the Bank of Montreal to conduct an environmental investigation to determine the nature and extent of soil and shallow groundwater contamination and to provide preliminary cost estimates for site remediation and redevelopment activities, as required. Recommendations and results of the 1989 were included in this investigation. P&R completed an intrusive program at the site that consisted of 55 test pits to investigate the horizontal and vertical extent of soil contamination, 16 core samples to investigate conditions underlying the plant, and five groundwater observation wells in addition to sampling process wastes on site to identify disposal options. The location of work carried out is shown on DCS Drawing N<sup>o.</sup> 701996-001-2, Appendix A. Analysis of the soil and groundwater samples found:

- Soils defined as leachate toxic with respect to lead under O.Reg. 309 were found in the northeast portion of the site;
- Soils containing highly elevated concentrations of zinc were found on the northeast and southeast portions of the site;
- Several areas of elevated metals, oil and grease and PCBs were identified over the remainder of the site;
- A layer of fill, consisting of foundry sands, slag and cinders, averaging 0.2 to 1.0 m in thickness was found across the majority of the site;
- Significant levels of organic and inorganic parameters were identified in an observation well located in the north east corner of the site;
- Over 400 cubic metres of foundry sand were still on site;
- Several catch basins and waste water sumps containing sludge materials that required off-site disposal; and
- Asbestos and small quantities of PCB contaminated electrical equipment were still present on the site

P&R brought forth remediation options and provided a preliminary site remediation cost estimate.

### Gartner Lee, Hydrogeologic Site Investigation, August 1998

Gartner Lee was retained by the City of Guelph to conduct a hydrogeologic investigation of the property. The scope of work included providing engineering services to assess if the

contamination found by P&R in their 1989 and 1991 work could affect or potentially the adjacent lands, to address MOE groundwater concerns, and to determine any changes in groundwater quality since 1991.

All-Terrain Drilling Limited was retained by Gartner Lee to advance twelve boreholes, nine of which were completed as monitoring wells. Soils at the property were characterized as dolostone overlain by native silty fine sand till and 1.4 to 2.8 meters (m) of fill (foundry sand and slag). The water table was assessed to be flat with the principal direction of flow to the east and southeast, based on monitoring events in June 1998. Soil samples were collected and analysed for metals, pH, volatile organic, total petroleum hydrocarbons (TPH), as well as base/neutral extractables. Groundwater samples collected from the monitoring wells were analysed for general chemistry and metals, volatile organics, petroleum hydrocarbons, base/neutral extractables, and PCBs. The location of work carried out is shown on DCS Drawing N<sup>o</sup> 701996-001-2, Appendix A.

Zinc and TPH concentrations in soil exceeded then current MOE 1997 Table A Standards for commercial and industrial land use. It was found that zinc and TPH contamination extends off site to the north and east, however the extent of the impacted area had not been established.

Analysis of groundwater collected found lead and zinc concentrations exceeding Table A Standards, similar to P&R, in addition to the concentrations of arsenic, beryllium, and thallium in the eastern portion of the site. Hydrocarbon odours were detected while purging monitoring wells OW1, OW1-II, OW6, and OW9-II. Sheen was observed in purge water from monitoring well location OW1 and OW1-II. TPH concentrations were detected in all groundwater samples with the exception of monitoring well location OW4. Groundwater samples from monitoring well locations OW1, OW1-II, OW2, OW5, OW9-II, OW10, OW11-I, and OW12 exceeded Table A TPH Heavy Oil Standards. Groundwater concentrations for benzene and total xylenes were found to exceed Table A Standards in samples from OW9-II and OW1, respectively. Several PAH compounds were found to exceed Table A groundwater Standards, notably in samples from monitoring well locations OW1, OW1-II, PW6, and OW11-I.

It should be noted that volatile organic compound (VOC) concentrations were detected in the drill water (sampled from the holding tank on the drill rig) as well in the trip blank.

Gartner Lee outlined five issues and recommendations:

Issue/Action Item 1:

The presence of VOC concentrations in drill water and subsequent detection of chlorination by-products in groundwater samples collected from monitoring well location OW3-II and OW9-I introduces a variable that renders some of the analytical data as suspect. Metals concentrations in groundwater, notably arsenic, beryllium, lead, and thallium, were detected at twice the Table A Standards. It is recommended that an additional round of groundwater samples be collected to verify results, along with a trip

blank and blind duplicate.

Issue/Action Item 2:

Soil and groundwater sample results in the east area of the building that previously housed the annealing oven confirm the findings of the 1991 investigation. However, due

to the uncertainty of the data, it was recommended that additional data be collected.

Issue/Action Item 3:

Benzene and methylene chloride concentrations were detected in groundwater samples from monitoring well location OW9-II. The source of benzene and methylene chloride has not been determined. The extent of the benzene and methylene chloride

contamination should be assessed.

Issue/Action Item 4:

Quantities of TPH were detected in or exceeded Table A Standards at all monitoring well locations with exception to monitoring well location OW4. The potential for off-site migration of TPH-impacted groundwater exists at monitoring well location OW5, as it is in close proximity to the property line. It is recommended that the extent of the TPH contamination in the vicinity of monitoring well location OW5 be sasses through further

soil and groundwater sampling.

Issue/Action Item 5:

Routine groundwater monitoring program should be implemented. The program should include water level measurements from both on-site monitoring wells in addition to any

accessible off-site monitoring wells in the vicinity.

**Phase One Environmental Site Assessment** 200 Beverley Street, Guelph, Ontario 701996-001 – February 2014

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### Gartner Lee, Supplemental Hydrogeologic Site Investigation, March 1999

This supplemental investigation was recommended in the 1998 Gartner Lee investigation. Twelve test pits and thirteen boreholes, ten of which were completed to monitoring wells, were advanced at the property. Slug tests were performed at monitoring well locations OW15 and OW16 to confirm previous hydraulic conductivity estimates. Soil and groundwater samples were collected and analysed for pH, total dissolved solids (TDS), as well as metals, TPH (purgeable and extractable), VOC, and PAH concentrations. The location of work carried out is shown on DCS Drawing N<sup>o</sup>. 701996-001-2, Appendix A.

### *Issue/Action Item 1 (analytical anomalies in groundwater):*

- 1. No chlorination by-products were detected in the samples collected and analysed.
- 2. Methylene chloride detected at low concentrations in a number of samples is attributed to laboratory-induced contamination.
- 3. Arsenic detected in groundwater at monitoring well location OW3-II indicative that it is indeed present at this location.
- 4. The concentration of thallium in groundwater collected at monitoring well locations OW1-I and OW9-I were compared to concentrations obtained in the previous phase of work. The previously elevated thallium concentrations were found to be anomalous.
- 5. Beryllium concentrations were not detected in any groundwater samples submitted for analysis. Previously recorded beryllium concentrations from groundwater samples and from drill water were found to be anomalous.

### *Issue/Action Item 2 (area east of the former annealing oven building):*

### Soil chemistry:

- 1. Soil analysis of samples taken immediately east of the building confirm the soil is impacted by metals, primarily zinc and lead, TPH, VOCs, and PAH/phthalates. Contamination extends from ground surface to bedrock.
- 2. The extent of zinc and TPH impacted soil has not been delineated but is likely to encompass the property to the north and east in this area.
- 3. Trichloroethylene was detected in a soil sample from test pit location TP7. The irregular distribution of VOC implies that contamination is localized pockets thus not widespread across the property.
- 4. The concentration of PAH and phthalates was found to be below Table A Standards.
- 5. Based on O.Reg. 347, soil and fill in the vicinity of the former annealing oven building are classified as non-registerable, non-hazardous waste.

Groundwater chemistry in the area east of the former annealing oven building:

- 1. Sample analysis confirmed groundwater was impacted with metals, TPH, VOCs, and PAH/phthalates.
- 2. Analytical results from groundwater at monitoring well location OW1-II showed deeper groundwater also impacted by the aforementioned contaminants.
- 3. Non-aqueous liquid (free product) was observed at monitoring well location OW21-1 within bedrock. The fuel oil free product comprises PAHs/phthalates.

Groundwater chemistry in the area east down-gradient of the boundary:

- 1. Nested monitoring wells were installed at location OW18 and a shallow well was installed at monitoring well location OW19 in order to assess the potential for contamination extending beyond the east property line. The concentration of TPH heavy oil in groundwater at monitoring well locations OW18-I and OW19 was equal or greater than the Table A criteria.
- 2. The concentration of trichloroethylene in groundwater at monitoring well location OW18-I was found to be above Table A Standards. Vinyl chloride concentrations exceeding Table A were found at monitoring well location OW18-I and OW19.
- 3. PAH compounds were detected at concentrations above Table A Standards at monitoring well location OW18-I and OW18-II.
- 4. Based on the data collected from the well nest, the source of TPH, VOC and PAH contamination may be located beyond the eastern boundary.

Groundwater chemistry in the vicinity of the former cooling tower:

1. The concentration of zinc in groundwater at monitoring well location OW17 was found to be lower than the concentration of zinc in the area east of the former annealing oven building, thus zinc contamination east of the former annealing oven building can be attributed to manufacturing processes rather than spills from the former cooling tower.

*Issue/Action Item 3 (area of former underground storage tank):* 

1. The concentration of benzene above Table A Standards was detected in groundwater from monitoring well location OW9-II in May 1998. In September, analysis of groundwater did not detect any benzene at monitoring well location OW9-II nor in any wells in the vicinity of OW9, i.e. OW13 and OW14. Analysis of groundwater samples carried out in December 1998 found the concentration of benzene exceeding

Table A Standards. It is concluded that the area is benzene-impacted however the source of benzene is unknown.

2. The concentration of zinc in groundwater collected from monitoring well location OW9-II, OW13, and OW14 was found to exceed Table A Standards.

### *Issue/Action Item 4 (area of former maintenance garage):*

- 1. The concentration of TPH in groundwater exceeded Table A potable water Standards at monitoring well location OW5. This parameter was also detected in groundwater at monitoring well locations OW15 and OW16, installed between monitoring well location OW5 and the property boundary.
- 2. Lead and zinc were detected in groundwater at monitoring well location OW16, at concentrations greater than Table A potable water Standards.

### *Issue/Action Item 5 (groundwater quality):*

- 1. Groundwater at the site is impacted primarily by TPH heavy oil, lead, and zinc.
- 2. VOCs were detected in samples but below applicable Standards with exception to well nest location OW18 and monitoring well locations OW19 and OW12.
- 3. PAH concentrations exceeded Table A Standards at well nest location OW1 and monitoring well locations OW9-II, OW20, and OW21.

Recommendations for the removal of hydrocarbon impacted and leachate toxic soils in the northeast corner were made in a letter sent by Gartner Lee to the City of Guelph on 14 April 1999. The recommendations included the removal of all soil that exhibited free product or the observance of significant hydrocarbon staining at the soil/bedrock contact and the removal of all soil that has zinc concentrations exceeding the concentration of  $10,000 \,\mu\text{g/g}$ .

### Earthtech, Demolition and Waste Removal Report, October 1999

Earth Tech (Canada) Inc. (Earth Tech, previously P&R) was retained by the City of Guelph to undertake the contract tendering and project administration for an Interim Remedial Work Plan, specifically the demolition of the building and clean-up of waste materials from the site. Philip Environmental Services (PES) was awarded the contract and was retained as a demolition contractor.

From November 1998 to July 1999 waste materials removal was undertaken by PES. During this time waste materials consisting of Asbestos Containing Material (ACM), PCB contaminated

material, various liquid wastes, leachate toxic wastes, registerable wastes and non-registerable solid wastes and other waste debris were removed from the site.

Wastes removed and disposed of from the site consisted approximately 1,600 tonnes of various ACMs, approximately 1,700 tonnes of non-registerable foundry sands, 100 tonnes of registerable foundry sands and dust, 160 kilograms of leachate toxic materials, 27 tonnes of soot and contaminated bricks, 465 litres (L) of waste oils and sludges, as well as Bunker C residues found in the bottom of a 45,000 L aboveground storage tank (AST).

Demolition of all buildings at the property was also carried out, in addition to remediation of PCB contaminated materials. Materials with a PCB concentration less than 35 parts per million (ppm) were disposed along with demolition waste; materials containing more than 35 ppm of PCBs were placed in poly-lined drums and were awaiting disposal.

Excavation of contaminated soils identified in previous investigations was carried out in June 1999. Approximately 9,387 tonnes of contaminated soils, 36 tonnes of leachate toxic soils, and 925 tonnes of contaminated concrete were excavated from the northeast corner of the site. Excavation of soils proceeded to bedrock, between 1.3 and 2.0 meters below ground surface (m bgs). Confirmatory soil samples collected at the excavation limits found zinc and TPH concentration exceeding Table A Standards at the excavation walls.

The sumps and pits, as well as the excavations were backfilled in June 1999. Approximately 2,500 tonnes of Granular "B" fill was used to backfill the sump and pits network and 8,469 tonnes of the same fill material was used to backfill the soil excavations. The backfill was sampled and analysed for metals, TPH, and VOCs. The results of the analysis found the concentration of all parameters analysed to be below Table A Standards.

Earth Tech recommended that groundwater monitoring be conducted down-gradient of the former Capacitor Room to assess whether or not PCBs had penetrated into underlying bedrock and impacted groundwater quality in addition to groundwater monitoring in the northeastern part of the site to determine any effects on groundwater quality from residual metal and hydrocarbon contamination.

## City of Guelph, Progress Report #6, August 2001

Progress Report #6 is prefaced with a letter from the City of Guelph to the MOE. The letter is a follow-up to earlier correspondence between the MOE and the City. The City of Guelph requested the modification of the groundwater monitoring program and the withdrawal of the MOE Director's Order date 14 July 1994.

### Groundwater Monitoring Program:

Gartner Lee carried out groundwater monitoring and sampling at the property in December 2000, March 2001, and June 2001. Analytical results found the contaminant concentrations in groundwater chemistry to be generally stabilized. Contaminants endemic to the site are zinc, petroleum hydrocarbons (PHCs) and associated constituents including PAHs and benzene, toluene, ethylbenzene, and xylene (BTEX). The contaminated area was restricted to the eastern portion of the property, with localized outlines occurring elsewhere on the property. Gartner Lee recommended:

- Reducing the frequency of groundwater monitoring to two events per year;
- Samples from monitoring well location OW22S and OW23S no longer be analysed for concentrations of PAHs and TPH;
- Groundwater from monitoring well location OW6 be samples and analysed for concentrations of zinc, TPH, and VOCs; and
- Elimination of PCBs in groundwater analysis provided the concentration of PCBs remain undetected.

# MOE Director's Order date 14 July 1994:

The City of Guelph has completed a detailed investigation of the IMICO property and undertaken clean-up of the site since 1994. In a letter dated 25 June 2001, the MOE raised the following issues and conditions of the Director's Order:

- Groundwater contaminated with metals, PHCs, PAHS, and VOC at concentrations above Table A Standards;
- Compounds exceeding Table A Standards in groundwater collected from monitoring well location OW6; and
- The extent of off-site soil and groundwater contamination.

The City of Guelph addressed the following:

- Remaining contaminants: based on monitoring and sampling events, the City believed
  that PHC and metal contamination was restricted to the site. Free product in the form of
  weathered oil was determined to be a localized occurrence. Gartner Lee made an effort
  to remove the product but it was deemed that the recovery of product would be
  impractical.
- Contamination in vicinity of monitoring well location OW6: contamination of soil and groundwater in the vicinity of monitoring well OW6 has been attributed to contaminated soil and fill. The source of the contamination was determined to be a blind sump in the former IMICO galvanizing room and wind drift from the air exchange vents. As the sumps in the former IMICO plant have been remediated and the building demolished, the contamination in the area is attributed to leaching of zinc from the neighbouring property.
- Off-site contamination: high concentrations of VOCs in groundwater are found in samples collected from the eastern portion of the property. The highest concentrations are found to be from groundwater samples collected from monitoring wells installed immediately adjacent to the east property boundary. Groundwater flow has been inferred to be onto the IMICO property. Given the available information, it is thought that the source of the contamination is east of the property.

### City of Guelph, Progress Report #7, March 2002

The MOE met with City of Guelph representatives and its consultants on 4 January 2002 in order to determine how to proceed with the site specific risk assessment (SSRA) required to fulfil the Director's Order for the site cleanup. The MOE's concerns included:

- Uncertainty regarding groundwater flow in the eastern portion of the site;
- Potential off-site impacts and receptors to the northeast of the site;
- Potential off-site impacts associated with petroleum hydrocarbons; and
- Incomplete understanding of the trichloroethylene (TCE) on site.

The City of Guelph believed that groundwater and flow and contaminant occurrence was completely characterized and a screening level risk assessment should proceed. Groundwater flow had been determined to be from the north-northeast towards the south-southeast. Residual contaminants are present but are unlikely to cause off site effect. The areas of greatest concern were the northeast and southeast perimeters of the property.

Localized outward groundwater flow was observed in the northeast corner of the property. However, there appeared to be no nearby receptors on the receiving City of Guelph-owned adjacent railway lands. If no potable water wells were found in the vicinity, the City would conduct a screening level risk assessment to evaluate any unacceptable human health or ecological risks that exist in the area.

Natural water level fluctuations may cause temporal changes in the groundwater flow direction but the City of Guelph believed that groundwater flow in the southeast corner of site flowed towards the centre of the site. As a result, any TCE and other VOC occurrences are considered by the City of Guelph to have an off-site source. In order to delineate the extent of the contamination, access to the neighbouring properties is required.

The City of Guelph proposed the following tasks:

- Summarize available regional groundwater flow information;
- Determine if there are any private wells in use in the vicinity;
- Resurvey the monitoring well locations on the eastern side of the property in attempt to tie in any monitoring well locations on the adjacent northern property;
- Installation of a cluster of monitoring wells down-gradient from monitoring well location OW25;
- Continue groundwater and hydrocarbon monitoring; and
- Conduct a screening level risk assessment.

#### CH2M HILL, Technical Memorandum, November 2003

CH2M HILL found three concerns for redevelopment of the property: the elevated zinc concentration in soil and groundwater, elevated concentrations of chlorinated solvents in groundwater, and TPH and PAH contamination in the subsurface. CH2M HILL concluded the rehabilitation options for the elevated zinc concentration across the site would require minimal remediation efforts. The TCE and associated chlorinated solvent impacts in the northeastern corner of the property, pose two restrictions in developing the property: the first being the vapour transport to the surface has a potential for human health impacts, and the second being that access to that portion of the property may be required for assess and/or remediate off-site issues. Additionally, other soil handling requirements may be needed in some areas of the property in order to limit contact with impacted soils.

### DCS, Phase I ESA, December 2007

DCS reviewed available environmental data. In order to determine existing conditions at the property, it was recommended that additional boreholes and monitoring wells be advanced. Additional boreholes were recommended in the eastern portion of the property to assess the documented VOC and TPH contamination. The installation of monitoring wells was recommended for the centre portion of the property, in the vicinity of the former capacitor room, to assess PCB concentration in groundwater. DCS recommended the installation of monitoring wells off-site to assess any potential contamination as well as the advancement of boreholes across the entire property in hot spots identified in previous works.

#### DCS, Phase II ESA, December 2007

A field program was carried out at the property by DCS in early 2007. The investigation program consisted of the advancement of 32 shallow boreholes to bedrock, completion of eight boreholes to shallow monitoring wells to a maximum depth of seven meters, and completion of two boreholes to deep monitoring wells to a maximum depth of ten meters.

Soil and groundwater samples were submitted for the analysis of metals and inorganic parameters, PHCs, PCBs, and PAHs. Analytical data was compared to applicable MOE Table 1 and Table 2 Standards. Regardless whether Table 1 or Table 2 Standards were chosen for the property, impacts from metals concentrations in exceedance of soil and groundwater Standards are present across the entire property and impacts from PHCs, PCBs, PAHs, and VOCs were present in three main areas, the eastern side of the property, in the vicinity of the former power house and capacitor room, and in the vicinity of the former maintenance garage, with occasional occurrences elsewhere.

DCS concluded that given of the soil and groundwater impacts, an extensive soil remediation program would be required to meet generic standards suitable for residential/parkland/institutional land use while risk assessment approach to manage contaminated soil would suffice for industrial/commercial/community land use.

### DCS, Preliminary Remedial Action Plan, March 2008

Based on the December 2007 Phase II ESA, DCS prepared a preliminary remedial action plan that brought forth four options:

- 1. Completing a soil and groundwater remediation program using the currently applicable (2008) MOE Table 1 background Standards;
- 2. Completing a Limited Scope Risk Assessment (LSRA) to allow for the use of MOE Table 2 Standards, applicable in a potable groundwater use scenario, to reduce remediation costs;
- 3. Completing a LSRA for the use of MOE Table 2 Standards as well as using the elevated lead and zinc background values; and
- 4. Completing a full scope Risk Assessment (RA) for the proposed site-specific land use.

At the time of writing, the generic clean up requirements were 2008 MOE Table 1 Standards. Site remediation using these Standards would require the removal of approximately 79,200 cubic meters (m<sup>3</sup>) of impacted soil.

Completion of a LSRA would potentially allow for the use of 2008 MOE Table 2 potable groundwater standards to govern site remediation requirements. The site could then be remediated with approximately 50,000 to 54,000 m<sup>3</sup> of soil requiring removal.

The concentration of zinc in the Guelph area has been found to be elevated with respect to MOE-established standards. The third option was the completion of a LSRA to meet MOE Table 2 potable groundwater standards for all parameters with the exception of zinc concentration. The LSRA would allow the concentration of zinc to be evaluated to elevated values. As zinc was the primary contaminant of concern on the property, the quantity of soil requiring remediation would be reduce to approximately 23,000 m<sup>3</sup>.

The final option was the completion a full-scale risk assessment as permitted by the MOE with no special local restrictions or limitations. Some soil remediation activities may be required on the site, however, the quantity of soil involved was not possible to accurately predict without completing risk analyses. It was anticipated that many soil impacts could be managed on site by placement of asphalt and concrete hard surfacing, clean soil barriers, controls on surface water infiltration and similar risk management measures. The RA would likely be required to ensure that groundwater discharging from the site meet MOE potable groundwater quality standards.

Groundwater impacts relative to the 2008 MOE Table 1 background Standards were present throughout most of the western portion of the site and may locally extend off-site. Groundwater remediation to MOE Table 1 background levels would difficult. A more practical approach would be to complete a LSRA justifying the use of MOE Table 2 potable groundwater

Standards. Based on the 2007 DCS Phase II ESA, the contaminant impacts exceeding MOE Table 2 Standards were primarily within the limits of the property, however, some PAH impacts were present near the west property boundary. In order to prevent the impacted groundwater from reaching the property lines, the installation of recovery well(s) was suggested. Water recovered would be directed to a treatment system and typically discharged to the municipal sewer.

Even with the completion of a full scope risk assessment potentially not requiring MOE Table 2 standards to be met within the western portion of the site, it is anticipated that some pump and treat activities will be required to be installed, if only for use on a standby bases, to ensure that groundwater leaving the site meets MOE Table 2 potable groundwater standards.

*Ex situ* methods would likely be the most effective groundwater clean-up approach within the eastern portion of the site. These methods could include a series of recovery wells leading to a treatment system which would consist of filtration, precipitation and granulated activated carbon polishing.

Given the findings in the DCS 2007 Phase II ESA, it was suggested that groundwater quality issues within the eastern portion of the site be dealt with separately from the western portion of the property. Both groundwater treatment and/or risk assessment approaches may be required to manage the groundwater impacts.

#### AECOM, 2011 Annual Groundwater Monitoring Report, August 2013

AECOM collected groundwater quality data from the existing monitoring wells, on five separate occasions throughout 2011. In their report, they included measurements and analytical results of groundwater quality within the property and in the vicinity of the property.

- 1. AECOM found groundwater quality measurements and analytical results to be consistent with historical data and shallow groundwater flow direction to be southerly. The groundwater level was found to be high in the deeper zone near monitoring well OW23D, and groundwater direction was found to flow away from this location across the site. Vertical hydraulic gradients in the shallow zone were generally downward.
- 2. The zinc concentrations continued to be slightly above Table 2 Standards at monitoring wells located at the western portion of the property. The concentration of lead was also detected just above the Table 2 Standard at monitoring well location OW9-II.

- 3. Overall TCE concentrations were decreasing. The highest concentrations of TCE observed were in September of 4,600 μg/L at monitoring well locations OW30D (at 490 York Road) and OW24D (on the eastern portion of the site) at 5,300 μg/L.
- 4. PAH concentrations were below Table 2 Standard at all wells at the property. However, benzo(a)pyrene, benzo(k)fluoranthene, chrysene, and fluoranthene were detected slightly above Table 2 Standard at monitoring well location OW30S in 2011 during monitoring events.
- 5. Four monitoring wells had PHC concentrations above the applicable standard located at the property, and at the 490 York Road property. Non-aqueous phase liquid (NAPL) was measured at monitoring well location OW23S and was not analyzed for PHCs, as PHCs dissolved in groundwater were expected to be present above Table 2 Standard at this location.
- 6. PCB concentrations have been below the detection limit at monitored locations since 2005. PCBs were no longer a contaminant of concern at the property.

AECOM recommended that the City of Guelph continue groundwater monitoring at the Former IMICO site in 2012, however, that the program be reduced to annually with the analytical program outlined in the table below:

| Well ID  | <b>General Chemistry</b> | Metals | VOCs | PAHs | PHCs |
|----------|--------------------------|--------|------|------|------|
| OW2      | X                        | X      | X    | X    | X    |
| OW3      | X                        | X      |      | X    |      |
| OW3-I    | X                        | X      |      | X    |      |
| OW6      | X                        | X      | X    | X    |      |
| OW9-I    | X                        | X      | X    |      | X    |
| OW9-II   | X                        | X      | X    |      | X    |
| OW16     | X                        |        |      |      |      |
| OW18-I   | X                        | X      | X    | X    | X    |
| OW18-II  | X                        | X      | X    | X    | X    |
| OW19     | X                        | X      |      | X    |      |
| OW22 (s) | X                        | X      |      | X    | X    |
| OW22 (d) | X                        | X      |      | X    | X    |
| OW23 (s) | X                        | X      | X    | X    | X    |
| OW23 (d) | X                        | X      | X    | X    | X    |
| OW24 (s) | X                        | X      | X    | X    | X    |
| OW24 (d) | X                        | X      | X    | X    | X    |
| OW25     | X                        | X      | X    | X    | X    |
| OW26 (s) | X                        | X      | X    | X    | X    |

| Well ID  | General Chemistry | Metals | VOCs | PAHs | PHCs |
|----------|-------------------|--------|------|------|------|
| OW26 (d) | X                 | X      | X    | X    | X    |
| OW27 (s) | X                 | X      | X    | X    | X    |
| OW27 (d) | X                 | X      | X    | X    | X    |
| OW28 (s) | X                 | X      | X    | X    | X    |
| OW28 (d) | X                 | X      | X    | X    | X    |
| OW29 (s) | X                 | X      | X    |      |      |
| OW29 (d) | X                 | X      | X    |      |      |
| OW30 (s) | X                 | X      | X    | X    |      |
| OW30 (d) | X                 | X      | X    | X    | X    |
| OW07-34D | X                 | X      | X    | X    |      |
| OW07-36S | X                 | X      | X    |      | X    |
| OW07-36D | X                 | X      | X    |      | X    |

AECOM recommended that groundwater elevations be collected in 2012 semi-annually as compared to quarterly in 2011. This was recommended based on consistent groundwater elevation and flow trends from year to year.

#### 4.2 Environmental Source Information

#### 4.2.1 EcoLog ERIS Database Search

A search of provincial and private databases for records pertaining to properties within 250 metres of the site boundaries was conducted by EcoLog ERIS. DCS has relied upon the EcoLog ERIS database information to be complete and accurate for the study area. A copy of the EcoLog ERIS report is provided as Appendix E. Relevant information is summarized below.

The EcoLog ERIS search found fourteen records associated with the site and one hundred thirty-four records were reported for surrounding properties. However, two records associated with the surrounding properties pertained to the site, thus were summarized in the Phase One Site section below.

### 4.2.1.1 Phase One Site

Two O.Reg. 347 waste generator numbers were found associated with the site. A waste generator number (ON0103000) associated with IMICO from 1986 until 1989 and from 1992 until 1998 was for the generation of paints/pigments/coating residue, other specified organics,

PCBs, and oil skimmings and sludges. The City of Guelph has been registered as a waste generator of other specified organics, PCBs, light fuels, oil skimmings and sludges since 1998.

Ontario Spill records indicated that a fire took place on 15 May 1992 at the site. The site was recorded as Ontario PCB storage site number 20289A044 in 1992.

The IMICO property was acquired by The Assembly of the Church of the Universe in 1993, however, records indicate IMICO was charged with and convicted of six counts of failing to "comply with Director's orders to remediated the property due to illegal activities and environmental contamination involving PCB waste" on 27 January 1997 and fined \$4,000 for each charge.

One water well record was found, dated 13 March 2007, for observation wells at the site. Two historical EcoLog ERIS searches were also recorded for the site.

### 4.2.1.2 Phase One Study Area

### Certificates of Approval

Eleven Certificates of Approval (CofAs) were found within the Phase One Study Area; the majority were for air emissions and not thought to have impacted the quality of the soil or groundwater underlying the property. However, one CofA was for industrial wastewater. Foseco Canada Inc. was issued a CofA on 26 September 1989 for the clean-up of contaminated groundwater at its plant on Alice Street, approximately 85 m west of the site. As the Foseco plant is inferred to be hydraulically cross-gradient, it is not thought to have impacted the soil or groundwater at the property.

### Environmental Registry

Seven Environmental Registry records were issued within the Phase One Study Area. Three records were associated with Insitu Contractors Inc. (Insitu Contractors), located across Beverley Street from the property. In 2008 Insitu Contractors obtained approval for sewage works as well in addition to obtaining approval for discharge into the natural environment other than water in 2008 and 2009 for its mobile facility. The Insitu Contractors facility is located approximately 180 m south of the Phase Two property and is inferred to be down-gradient of the property thus not thought to have impacted the soil or groundwater underlying the property. ABS Friction

Corp. (ABS) had four records associated with its plant adjacent to the property. ABS had obtained approval for the discharge into the natural environment other than water in 1997, 2000, 2003 and 2009. The ABS plant is located approximately 200 m west of the site and is inferred to be down-gradient of the property thus wastes generated are not thought to have impacted the soil or groundwater underlying the property.

### Ontario Regulation 347 Waste Generators Summary

The EcoLog ERIS search returned eight Ontario Waste Generator records for various commercial and light industrial businesses located at 24 Hayes Avenue, approximately 40 m southeast of the property and inferred to be down gradient of the property. Wastes generated at this location included inorganic laboratory chemicals, organic laboratory chemicals, paint/pigment/coating residues, emulsified oils as well as waste oils and lubricants. The property located at 24 Hayes Avenue is inferred to be down-gradient of the property; wastes generated at the property are not expected to have impacted the soil or groundwater underlying the property.

Five O.Reg. 347 waste generator records were associated with Insitu Contractors, located across Beverley Street from the site. Insitu Contractors have been generators of water oils and lubricants, and oil skimmings and sludges since 2002. As the Insitu Contractors facility is located approximately 180 m south of the property and is inferred to be down-gradient of the property, it is not thought to have impacted the soil or groundwater underlying the property. Choice Enterprises and Transportation Services have been waste generators of emulsified oils since 2003. Located at 143 Stevenson Street South, the facility is located approximately 180 west of the Phase Two property and is inferred to be cross-gradient of the property thus wastes generated are not thought to have impacted the soil or groundwater underlying the property.

Four waste generator records for alkaline wastes – other metals and oil skimmings and sludges were associated with Guelph Hydro for the intersection of Beverley Street and Stevenson Street South from 1989 until 1990, from 1992 until 2001, and from 2003 until 2003. The intersection of Beverley Street and Stevenson Street South is approximately 180 m south of the site and is inferred to be down-gradient of the property thus any wastes generated at this location are not thought to have impacted the soil or groundwater underlying the property.

Eleven waste generator records were found associated with various commercial tenants at 10 Kingsmill Avenue. Dating back to 1986 until 2012, the various tenants at this location have generated paints/pigments/coating residues, waste oils and sludges, waste crankcase oils and

lubricants, emulsified oils, oil skimmings and sludges, waste compressed gases, petroleum distillates, and aromatic solvents. 10 Kingsmill Avenue adjacent to the property on the southeast side (approximately 120 m from the property), it is inferred to be down-gradient of the property thus wastes generated are not thought to have impacted the soil or groundwater underlying the property. From 2009 until 2011, 212 Alice Street had three waste generator records associated with the property for the generation of light fuels. As of 2012, Stantec Consulting Inc. is recorded as a generator of inert organic wastes at the property.

Nine waste generator records were found to be associated with 201 Alice Street, located approximately 220 m west of 200 Beverly Street. From 1986 until 1990 and from 1992 until 1998, Foseco was a waste generator of alkaline wastes – other metals, neutralized wastes – other metals, paint/pigment/coating residues, other specified organics, inorganic laboratory chemicals, aromatic solvents, aliphatic solvents, petroleum distillates, polymeric resins, other polymeric wastes, halogenated solvents, oil skimmings and sludges, organic laboratory chemicals, amines, and other inorganic acid wastes. Since 2004, BP Canada Energy Company has been registered waste generators of aromatic solvents and residues at 201 Alice Street. The property at 201 Alice Street is inferred to be hydraulically cross-gradient, as such, wastes generated at this location are not thought to have impacted the soil or groundwater at the property.

No waste generator records were found associated to properties inferred to be hydraulically upgradient to the site.

### TSSA Expired Facilities, Private and Retail Fuel Storage Tanks, Retail Fuel Storage Tanks

Records for TSSA Expired Facilities, Private and Retail Fuel Storage Tanks, and Retail Fuel Storage Tanks are associated with two properties within the Phase One Study Area: Maple Leaf Gas and Fuels and Quality Auto Glass (Maple Leaf Gas) located at 390 York Road (250 m south of the property) and the property located at 408 York Road (250 m south of the Phase Two property). Three records of private and retail fuel storage tanks were found: one record was associated with a 100,000 L retail storage tank at Maple Leaf Gas and two records, pertaining to one 2,640 L and one 54,552 L retail storage tanks, for the property located at 408 York Road. Additionally, two TSSA Expired Facilities records were found associated with the property located at 408 York Road. The properties associated with private and retail storage tanks are inferred to be hydraulically down-gradient to the property and are not expected to have impacted the quality of the soil or groundwater at the site.

National Pollutant Release Inventory

Five National Pollutant Release Inventory records were found associated with ABS, located at 10

Kingsmill Avenue - adjacent to the property, for air releases of copper, PM10, and PM2.5. This

is not thought to have impacted the soil or groundwater at the property.

Scott's Manufacturing Directory

Twenty-four records were found in Scott's Manufacturing Directory. Eight records were

associated with the building located at 10 Kingsmill Avenue, five records were associated with

24 Hayes Avenue, four records were associated with Georges Furniture and Cabinet and

Giorgio's Galeria, three records were associated with Steele Bros. located at 60 Johnston Street

250 m, west of the property), and records associated with Clear Choice Window Manufacturing

(145 Stevenson Street South), Insitu (145 Stevenson Street South), Choice Enterprises Inc. (143

Stevenson Street South), and Lewis Upholstery (404 York Road, 250 m west of the site).

Ontario Spills

Two Ontario Spills records were found in the Phase One Study Area: a fire at 10 Kingsmill

Avenue in which 1,200 L of water was used to put out the blaze and an unknown quantity of

gasoline to the ground due to container overflow at 408 York Road. Neither spill is thought to

have impacted the soil or groundwater quality at 200 Beverley Street.

Water Well Information System

Fifteen well records found for properties in the Phase One Study Area. The wells were utilized

as monitoring and testing wells. The soil in the area was generally described as sandstone or

bedrock overlain by sand and gravel, sand or peat fill soils.

4.2.2 TSSA Records Review

The TSSA Fuels Safety Branch was contacted and requested to review their files for any

information available on the property regarding aboveground or underground storage tanks. The

TSSA reported that they have no information in their records for the subject property.

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It should be noted that the Fuels Safety Division of the TSSA did not license or register private fuel underground or aboveground storage tanks prior to January 1990 or fuel oil tanks prior to May 1, 2002. Further, private fuel oil or waste oil tanks in apartments, office buildings, residences, etc. and aboveground gas or diesel tanks are not registered with the TSSA.

### 4.2.3 Brownfields Environmental Site Registry

An on-line search of the MOE Brownfields Environmental Site Registry was performed by DCS. The search indicated no properties with Records of Site Condition (RSC) filed on lands within an estimated 500 metres of the site

### 4.2.4 Environmental Registry

An on-line search of the MOE Environmental Registry was performed by DCS. The search indicated that there are no records on file for the site and seven records on file for properties within the vicinity of the site. The records were for approvals to discharge into the natural environment other than water (air) and sewage works.

#### 4.2.5 HWIN Database Search

A search of the MOE HWIN database was performed by DCS on 2 December 2013 for current records of the site. The search returned one active waste generator number associated with the site; the City of Guelph was registered as a waste generator of light fuels and other specified inorganics. A comprehensive search of the MOE database for the site and vicinity is included in the EcoLog ERIS report (see Appendix E).

#### 4.2.6 PCB Storage Sites

Searches of the MOE's inventory of PCB storage sites and Environment Canada's National PCB inventory were completed by EcoLog ERIS (see Section 4.2.1). The IMICO site was recorded as a PCB Storage Site in 1992. No current records were found pertaining to 200 Beverley Street as a PCB Storage Site.

### **4.2.7** National Pollutant Release Inventory

A search of Environment Canada's National Pollutant Release Inventory (NPRI) was completed by EcoLog ERIS (see Section 4.2.1). Five records were associated with ABS located at 10 Kingsmill Avenue, adjacent to the property, for air releases of copper, PM10, and PM2.5.

### **4.2.8** Waste Disposal Site Inventory

Review of the MOE *Waste Disposal Site Inventory*, dated June 1991, indicates that there are no active waste disposal sites on or near the subject property. The nearest closed waste disposal sites are over 5 km from the subject property, to the east. It is considered unlikely that the closed waste disposal sites would have any impact on the subject property.

#### 4.2.9 Coal Gasification Sites

No coal gasification plant sites were identified in the vicinity of the subject property in the Inventory of Coal Gasification Plant Waste Sites in Ontario, Volume 1 (MOE 1987).

### **4.2.10 MOE FOI Request**

A Freedom of Information (FOI) request was forwarded to the MOE for documents that are in the Ministry's files pertaining to any environmental concerns, orders, spills, charges/prosecutions, Certificates of Approval and waste sites on the subject property in 2007, at the time of the previous DCS Phase I ESA. The records obtained from the FOI were summarized in Section 4.1.5 *Environmental Reports*.

A new FOI request was forwarded to the MOE for documents dating from 2007 until present day. A response has not been received from the MOE at the time of reporting. Any response received after reporting will be forwarded to the City of Guelph.

#### 4.3 Physical Setting Sources

### 4.3.1 Aerial Photographs

Aerial photographs of the subject site were reviewed for the years 1930, 1964, 1972, 1981, 1990, and 1995. Photographs were chosen to provide approximately a ten year time period or less

between photographs to gain a general understanding of the site history. Copies of the aerial photographs are provided in Appendix C. The scale of the photographs does not allow for detailed description of the subject property. Observations made from each of the photographs are provided in the table below:

| YEAR | DESCRIPTION  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|
| 1930 | Given the scale of the aerial photograph, the site features were not fully discernable. However within the Phase One Study Area, the following was noted:  |  |  |  |  |  |  |
|      | Rail line along the northern property boundary.  |  |  |  |  |  |  |
|      | The land to the north is unoccupied.   |  |  |  |  |  |  |
|      | The lands to the east of the property are unoccupied.  |  |  |  |  |  |  |
| 1964 | • All buildings are completed. Ground surface at the eastern end appears to be slighter darker than the ground surface at the western end of the site.   |  |  |  |  |  |  |
|      | The land to the north is unoccupied.   |  |  |  |  |  |  |
|      | There is a plant to the northeast  |  |  |  |  |  |  |
| 1972 | There is now a parking area located in the northwest corner of the property  |  |  |  |  |  |  |
|      | The land to the north is still not developed.  |  |  |  |  |  |  |
| 1981 | The lands are similar to previous years.   |  |  |  |  |  |  |
|      | • There is a new building located to the north of the machine shop and warehouse. This is identified as a storage building in previous documentation.  |  |  |  |  |  |  |
| 1990 | • There are no cars in the parking lot (may indicate that plant is closed). Plant layout and surrounding lands are very similar to previous years. The plant to the north has expanded its operations and is using more of the lands to the north for a laydown yard.  |  |  |  |  |  |  |
| 1995 | • It appears as if some of the buildings are in the process of being demolished. Buildings (shipping, storage, finishing and annealing and the machine shop and warehouse) in the northeast corner of the property do not have roofs. Also the offices at the front of the plant are in the process of being demolished. |  |  |  |  |  |  |
| 2013 | All buildings have been demolished.  |  |  |  |  |  |  |

#### 4.3.2 Topography, Hydrology and Geology

A review of the Ministry of Natural Resources (Ontario Geological Survey) Toronto and Surrounding Area Quaternary Geology Map (Map P.2204, 1980) indicates that the native soil conditions local to the site consist Port Stanley till; silt to sandy silt matrix that is strongly calcareous with moderate to low clast content from the Pleistocene Epoch.

A review of the Ministry of Natural Resources (Ontario Geological Survey) Geological Highway Map of Southern Ontario (Map 2441, 1979) indicates that the bedrock conditions local to the site consist sandstone, shale, dolostone, and siltstone. Depth to bedrock at the site was determined to be between approximately 1.14 and 2.66 m during the 2007 DCS Phase II ESA.

Groundwater is expected to flow to the east and southeast, towards the Eramosa River, approximately 550 m southeast of the site, but may be affected locally by such features as buried utilities/services.

A topographic map of the site is provided in Appendix G. The regional topography in the area of the site slopes to the southeast toward Eramosa River.

#### 4.3.3 Fill Materials

Fill was encountered from surface to depths ranging from 0.3 - 1.78 metres at locations investigated by DCS in 2007. The fill was generally described as sand, gravel, coal and clinker, and silty sand.

#### 4.3.4 Water Bodies and Areas of Natural Significance

The nearest water body to the site is the Eramosa River, which is located about 550 m southeast of the site.

An on-line search of the MNR Species at Risk database performed by DCS on 22 November 2013 indicated that there are potentially several sensitive species within the Wellington region, including Jefferson's Salamander, three fish species: the Black Redhorse, the Redside Dace, and the Silver Shiner, a mussel known as the Wavy-Rayed Lampmussel, Blanding's Turtle, the Northern Map Turtle, the Snapping Turtle, the Rusty-patched Bumble Bee, the following bird species: Bald Eagle, Barn Swallow, Black Tern, Bobolink, Eastern Meadowlark, Henslow's Sparrow, Least Bittern, Loggerhead Shrike, Short-eared Owl, and Yellow-breasted Chat, as well as the following plant species: American Chestnut, Hart's-tongue Fern, False Hop Sedge, and Hill's Pondweed. Most of these species have not been observed in the area for decades and the current habitat on and near the site is not generally suitable to support the listed species. No sensitive species of mammals were identified within the site Wellington region. Limitations on the location of the MNR database are due to the accuracy of the information provided. Should a Phase Two ESA be undertaken, care should be taken to identify and protect any threatened plant species and its habitat. Additionally communication with local conservation authorities is recommended.

According to *City of Guelph, Natural Heritage Strategy* published June 2002, the site is not located in a designated Environmentally Significant Area nor is it an Area of Natural and Scientific Interest.

#### 4.3.5 Well Records

A search of water well records was completed as part of the EcoLog ERIS search. It was reported one well record associated with the site and fifteen well records for properties in the vicinity of the site for monitoring and testing.

There are a number of monitoring wells on the property that are used for groundwater monitoring and sampling.

The soil in the area was generally described as sandstone or bedrock overlain by sand and gravel, sand or peat fill soils.

#### 4.4 SITE OPERATING RECORDS

No operating records were available for the site.

#### 5.0 INTERVIEWS

Mr. Grant Ferguson, C.E.T., Program Manager, Technical Services for the City of Guelph was interviewed as part of this Phase One ESA.

Mr. Ferguson was interviewed by telephone on 2 December 2013. He has been working for the City of Guelph since 1991. Mr. Ferguson has overseen the remedial work undertaken by the City of Guelph since the Director's Order in 1994.

Mr. Ferguson indicated that the only entrance to the property it at the intersection of Kingsmill Avenue and Beverley Street. However, the fencing at along the northern border the property, along the train tracks, has been vandalized over the years and an opening had been cut in the area of the former employee parking lot. Trespassers often use the property to build dirt bike jumps areas or drawing graffiti in the former storage area on the northeast portion of the property. On occasion, there have been bush fires in the vicinity of the cut out opening in the fence.

Mr. Ferguson indicated the City of Guelph is working to redevelop the site as soon as possible.

The overall information obtained from the interviews was considered to be reliable and consistent with other information sources.

Copies of the completed interview forms are provided in Appendix I.

#### 6.0 SITE RECONNAISSANCE

### **6.1** GENERAL REQUIREMENTS

An inspection of the site was undertaken by Ms. Tu-Anh Nguyen, M. Eng. (see Appendix J for Ms. Nguyen's qualifications) of DCS at 8:00 am on 7 November 2013. Ms. Nguyen was at the site and its vicinity for about 2.5 hours. The weather was cloudy with gusts of wind and about 10°C during the site inspection. Observations made during the site inspections are presented below. The completed Phase One ESA site reconnaissance form is provided in Appendix I.

The locations of any significant land features identified during the inspection are shown on DCS Drawing N<sup>o.</sup> 701996-001-1. Photographs taken during the site visit are provided in Appendix B. Brief summaries of each photograph are provided below and in Appendix B.

| Photograph | Description   |  |  |  |
|------------|---|--|--|--|
| No.        |   |  |  |  |
| 1          | View of debris and discarded spray paint cans on the western boundary of the      |  |  |  |
|            | property, looking west.   |  |  |  |
| 2          | View of drums along foundation wall of the former machine shop and warehouse,     |  |  |  |
|            | looking north.  |  |  |  |
| 3          | Debris along the northeastern perimeter of the property, looking northeast.       |  |  |  |
| 4          | View of debris observed entering the property, looking north.                     |  |  |  |
| 5          | View of drums observed at the time of the site inspection, looking east.          |  |  |  |
| 6          | View looking north on the property.   |  |  |  |
| 7          | View looking south on the property  |  |  |  |
| 8          | View looking east on the property.  |  |  |  |
| 9          | View of the adjacent properties (railway and bulk storage facility) to the north. |  |  |  |
| 10         | View of adjacent properties (Kingsmill Avenue) to the east                        |  |  |  |

#### 6.2 Specific Observations at Phase One Property

#### 6.2.1 Buildings

At the time of the site reconnaissance, no buildings were observed.

6.2.2 Open Lands

The site was covered with fill soils, debris, and was overgrown at the time of the site inspection

on 7 November 2013. Soils appeared to be relatively undisturbed across the site with the

exception of an area on the western portion of the site. Vegetation present at the site did not

appear stressed. Some staining was observed on remnant foundation slabs, however, they

appeared weathered. It is assumed the stains are from the previous use of the property as a

foundry and waste storage site. No potentially contaminating activities were observed on the site

during the site inspection.

No railway lines or spurs were observed on site. There is a rail corridor immediately adjacent to

the north of the site.

No potable water wells were observed on the site. The site is serviced by municipal water from

the City of Guelph. It is assumed the water supply is no longer connected. Several monitoring

wells were observed at the time of the site inspection, they are assumed to have been installed

during previous investigations.

No unidentified substances were observed on the site during the site visit of 7 November 2013.

**6.2.3** Storage Tanks

No storage tanks or evidence of former storage tanks were observed during the site inspection.

A UST was reportedly formerly present in the eastern corner of the site. One 45,000 L AST was

removed by PES in 1999 as part of the demolition work.

**6.2.4** Water Sources

The site was previously supplied with municipal drinking water from the City of Guelph, which

is sourced from groundwater wells and a shallow groundwater collection system.

6.2.5 Utilities

There are currently no utilities present on the site as all services were disconnected prior to

demolition.

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**6.2.6** PCBs

No evidence of transformers or PCB containing equipment was observed on the site.

Historically, capacitors containing PCBs were present on site.

6.2.7 Asbestos

A designated substances survey was completed by PES prior to demolition of the building.

Friable materials asbestos containing materials were identified in thermal insulation applied to

pipe fittings and straights.

6.2.8 Refrigerants

No equipment containing refrigerants were observed at the property at the time of the site

reconnaissance.

6.2.9 Hazardous and/or Waste Materials

Debris along the fenced perimeter was observed across the site during the inspection.

Additionally, spray paint cans and construction material were observed on the western boundary

of the property, debris and construction rubble pile was observed along the northeastern

boundary of the property.

**6.2.10** Sumps, Pits and Drains

No sumps, pits or drains were observed during the site inspection although it is known that pits

were present when the plant was in operation.

6.2.11 Waste Water

No waste water is currently associated with the site. The site was previously serviced by the City

of Guelph sewer systems; however, all services were disconnected prior to demolition.

**6.2.12 Air Emission Sources** 

No sources of air emissions were observed during the site inspections.

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**6.2.13 Chemical Handling** 

No inventories of chemicals were observed during the site inspections.

**6.2.14 Designated Substances** 

A designated substances survey was completed by PES in 1998 prior to demolition of the

building. Friable and non-friable materials containing asbestos were identified by PES. PCBs

and PCB-contaminated materials were also identified.

**6.2.15** Mould

No mould was observed during the site inspection.

**6.2.16** Investigation of Phase One Study Area

The adjacent land uses at the time of the site visit on 7 November 2013 were as follows:

North: Guelph Rail Line

South: Beverley Street followed by mainly industrial and commercial properties: ABS Friction

was previously located at 10 Kingsmill Avenue, Dresco Plumbing and Supply is located at 24 Hayes Avenue, residential dwellings are located at 201, 203, and 205 Beverley Street, Stan's Plumbing and Heating Supplies is located at 101 Beverley Street, and In-

Situ Contractors are located at 150 Stevenson Street South (at the intersection of

Beverley Street and Stevenson Street South).

West: Stevenson Street South followed by Steele Bros. located at 60 Johnston Street, Choice

Enterprises and Transportation Services is located at 143 Stevenson Street South, Sign Art Centre of Guelph Inc. is located at 145 Stevenson Street South, 147 Stevenson Street

South houses WYGA Construction Ltd., as well as George's Furniture & Giorgio's

Galleria, residential dwellings are located at 109 and 111 Stevenson Street South.

East:

Former industrial facility currently used for commercial purposes.

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No unusual conditions were observed on the adjacent lands. It should be noted that observations were made, for the most part, from the site or from publicly accessible areas.

Other property uses within the Phase One Study Area consist mainly of low-rise commercial and industrial properties with some residential dwellings. Most of the properties just outside of the Phase One Study Area are residential homes.

The nearest water body to the site is the Eramosa River, which is located about 550 m southeast of the site. Several sensitive species of turtles, fish, snakes, insects, and plants were identified within Wellington region as discussed in Section 4.3.4 *Water Bodies and Areas of Natural Significance*. Most of these species have not been observed in the area of the site for decades and the site and surrounding area is not generally suitable to provide habitat for these species.

Three well nests were installed by Gartner Lee (now AECOM) in 2004 at 490 York Road (located immediately to the north east of the property) to better define the groundwater flow conditions and groundwater quality in order to establish the source of VOC contamination observed in the wells located along the property boundary between the two properties.

#### 6.3 ENHANCED INVESTIGATION PROPERTY

The site is considered to be an enhanced investigation property as it was previously used for operations including processing or manufacturing and storage of hazardous materials. The former plant also had equipment maintenance areas. As the building has been torn down, records required by O.Reg. 153/04, as amended, for an enhanced investigation were not available. Every reasonable inquiry was made to obtain records relating to the operation of the foundry and as a waste storage facility, however, no records were available.

One underground storage tank was previously present at the site, but removed in the mid-1980s, as discussed in Section 4.1.5 *Environmental Reports*. The UST was located in the northeastern section of the property. One 45,000 L AST was removed when the building was demolished in 1999.

The site was previously registered as a waste generator under Generator Number ON0103000 to IMICO. The City of Guelph has an active Generator Number (ON3323094) associated with the site. Wastes generated at the property were paints/pigment/coating residues, other specified inorganics, PCBs, oil skimmings and sludges, and light fuels.

There are no Certificates of Approval associated with the property.

Ontario Spills records indicated that a fire took place on 15 May 1992 at the site. And records indicate the site was an Ontario PCB storage site (number 20289A044) in 1992. IMICO was charged with and convicted of six counts of failing to "comply with Director's orders to remediated the property due to illegal activities and environmental contamination involving PCB waste" on 27 January 1997 and fined \$4,000 for each charge.

The former buildings have been demolished and the property is currently vacant. No chemicals were observed at the property at the time of the site reconnaissance.

The site plan provided in DCS Drawing  $N^{\underline{0}}$  701996-001-2 shows the approximate former locations of foundry activities on the site.

#### 6.4 WRITTEN DESCRIPTION OF INVESTIGATION

At the time of the site visit on 7 November 2013, the property was vacant. The building was demolished in 1999 but building foundation slabs remain at the property. Soils appeared to be relatively undisturbed across the site with exception of an area on the western portion of the site. Vegetation present at the site did not appear stressed. Some staining was observed on remnant foundation slabs, however, they appeared weathered, it is assumed the stains are from the previous use of the property as a foundry and waste storage site. No potentially contaminating activities were observed on the site during the site reconnaissance.

Potentially contaminating activities that have previously taken place on the site included gasoline and associated products storage in fixed tanks, historic importation of fill of unknown origin across the site, iron and steel manufacturing and processing, metal treatment, coating, and finishing, as well as the use and storage of PCBs.

Potentially contaminating activities were observed adjacent to the site, these activities include chemical manufacturing, processing, and bulk storage, and rail yard, tracks, and spurs.

As the fill soils were historically across all of 200 Beverley Street, the entire property is considered to be an area of potential environmental concern (APEC 1). APEC 2 comprises the eastern portion of the property that formerly housed a gasoline UST and a machine shop. The

centre portion of the former IMICO foundry in the vicinity of the capacitor room, cooling tower and offices is considered APEC 3. The southern portion of the property formerly housing the sand mixer, foundry sumps, and the electrical shop is considered APEC 4. The area in western portion of the property, where the maintenance garage was previously located comprises APEC 5. APEC 6 consists of the area of the former core room, power house, and boiler house. The northeastern portion of the property was previously used for storage and warehousing, including storage of PCBs, and as a machine shop, this is considered APEC 7.

#### 7.0 REVIEW AND EVALUATION OF INFORMATION

#### 7.1 CURRENT AND PAST USES

The site was first developed as a foundry in 1912. The site was used as a foundry until 1989, when the plant was abandoned. The site building was torn down in 1999. The site is slated to be redeveloped by the City of Guelph. The current and past uses of the site are summarized in the table below:

| YEAR            | NAME OF OWNER                                | DESCRIPTION OF<br>PROPERTY USE | PROPERTY USE | OTHER OBSERVATIONS FROM AERIAL PHOTOGRAPHS, FIRE INSURANCE PLANS, ETC. |
|-----------------|--|--------------------------------|--------------|--|
| 1912 to<br>1992 | International Malleable Iron Company Limited | Foundry                        | Industrial   | None   |
| 1992 to<br>1993 | John H. Long                                 | Chemical storage               | Industrial   | None   |
| 1993 to<br>1997 | Church of the Universe                       | Inactive                       | Community    | None   |
| 1997 to present | City of Guelph                               | Vacant                         | None         | None   |

### 7.2 POTENTIALLY CONTAMINATING ACTIVITY

Potentially contaminating activities (PCAs) identified at the site include:

- 1) Placement of fill of unknown origin across the site.
- 2) Former underground storage tank in the northeast corner of the site.
- 3) Former iron and steel manufacturing and processing at the site.
- 4) Former metal treatment, coating, and finishing at the site.
- 5) Former use and storage of PCBs at the site.

Potentially contaminating activities in the Phase One Study Area include:

- 6) Chemical manufacturing, processing, and bulk storage adjacent to the site.
- 7) Rail yard, tracks, and spurs adjacent to the site.

# 7.3 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

The Areas of Potential Environmental Concern (APEC) on the site are summarized in the table below:

| APEC   | LOCATION OF APEC ON PHASE ONE PROPERTY  | POTENTIALLY CONTAMINATING ACTIVITY   | LOCATION<br>OF PCA<br>(ON OR<br>OFF-SITE) | CONTAMINANTS OF<br>POTENTIAL CONCERN                        | MEDIA POTENTIALLY IMPACTED (GROUND WATER, SOIL AND/OR SEDIMENT) |
|--------|---|--|---|---|---|
| APEC 1 | Entire property   | Importation of Fill<br>Material of<br>Unknown Quality<br>(30)  | On-site                                   | Metals and inorganic parameters                             | Soil and Groundwater  |
| APEC 2 | Eastern<br>portion,<br>former<br>location of<br>UST and<br>machine<br>shop                            | Gasoline and Associated Product Storage in Fixed Tanks (28), Metal Treatment, Coating and Finishing (33) | On-site                                   | Metals and inorganic<br>parameters<br>PHCs and BTEX<br>VOCs | Soil and Groundwater  |
| APEC 3 | Central portion of the site, in the vicinity of the former capacitor room, cooling tower and offices  | Iron and Steel Manufacturing and Processing (32), Use and storage of PCBs at the site                    | On-Site                                   | PHCs and BTEX<br>PCBs<br>PAHs<br>VOCs                       | Soil and Groundwater  |
| APEC 4 | Southern portion of the site, formerly housing the sand mixer, foundry sumps, and the electrical shop | Iron and Steel<br>Manufacturing and<br>Processing (32)   | On-Site                                   | PHCs and BTEX<br>PCBs<br>PAHs<br>VOCs                       | Soil and Groundwater  |
| APEC 5 | Western<br>portion of the<br>property,<br>former<br>maintenance<br>garage                             | Garage,<br>Maintenance and<br>Repair Area  | On-Site                                   | PHCs and BTEX<br>PAHs<br>VOCs                               | Soil and Groundwater  |
| APEC 6 | Former core<br>room, power<br>house, and<br>boiler house  | Use and storage of PCBs  | On-Site                                   | PHCs and BTEX<br>PCBs<br>PAHs<br>VOCs                       | Soil and Groundwater  |

| APEC   | LOCATION OF APEC ON PHASE ONE PROPERTY   | POTENTIALLY<br>CONTAMINATING<br>ACTIVITY  | LOCATION<br>OF PCA<br>(ON OR<br>OFF-SITE) | CONTAMINANTS OF<br>POTENTIAL CONCERN           | MEDIA POTENTIALLY IMPACTED (GROUND WATER, SOIL AND/OR SEDIMENT) |
|--------|--|---|---|--|---|
| APEC 7 | Northeastern portion of the property, former storage and warehousing, including storage of PCBs, and as a machine shop | Iron and Steel Manufacturing and Processing (32), Metal Treatment, Coating and Finishing (33), Use and Storage of PCBs. | On-Site                                   | PHCs and BTEX<br>PCBs<br>PAHs<br>VOCs          | Soil and Groundwater  |
| APEC 8 | Northwestern<br>property<br>boundary   | Chemical<br>manufacturing,<br>processing, and<br>bulk storage (8)   | Off-Site                                  | PHCs and BTEX<br>PCBs<br>PAHs<br>VOCs          | Soil and Groundwater  |
| APEC 9 | Northwestern property boundary   | Rail yard, tracks,<br>and spurs adjacent<br>to the site (46)  | Off-Site                                  | Metals and inorganics<br>PHCs and BTEX<br>PAHs | Soil and Groundwater  |

Note: Number in brackets refers to Potentially Contaminating Activities referenced in Schedule D, Table 2, O.Reg. 153/04

It should be noted that contamination is present in the groundwater on the eastern property boundary and on the adjacent property located at 460 York Street. The MOE and the City of Guelph are conducting an on-going investigation on the source of contamination. At the time of writing, no source has been identified.

#### 7.3.1 Assessment of APECs

The APECs listed in Section 7.3 of greatest concern on the site include those associated with onsite activities (PCAs 1 to 6). Contaminants of concern associated with these PCAs include metals and inorganic parameters, BTEX, PHCs, PCBs, PAHs, and VOCs, as listed above.

The rationale for the conclusion that these APECs are considered to be of greatest concern to the site is provided below.

#### PCA 1: Placement of fill across the site from an unknown source (APEC 1)

- Metal concentrations exceeding MOE Table 1 industrial/commercial/community land use Standards were previously reported in the fill across the site by DCS in 2007.
- DCS found metals impacts in soil and groundwater in 2007.

#### PCA 2: Former UST in the northeast corner of the site (APEC 2)

- The UST reportedly contained gasoline.
- DCS identified PHC impacts in soil in this area during the 2007 investigation as well as PAHs.

#### PCA 3: Former iron and steel manufacturing and processing at the site (APECs 3, 4, and 7)

- The site was previously owned by IMICO and used as a foundry from its purchase in 1912 until the plant closed in 1989.
- Previous demolition and remediation work have occurred at the property.
- DCS found PHC, PAH, PCB, VOC soil and groundwater contamination across the entire property in 2007.

## PCA 4: Former metal treatment, coating, and finishing at the site (APECs 2 and 7)

- The site was previously owned by IMICO and used as a foundry from its purchase in 1912 until the plant closed in 1989.
- Previous demolition and remediation work have occurred at the property.
- DCS found PHC, PAH, PCB, VOC soil and groundwater contamination across the entire property in 2007.

#### PCA 5: Former use and storage of PCBs at the site (APEC 6)

- The former PCB storage area was identified in the northeast portion of the property.
- PCB impacts were found by DCS in the 2007 Phase II ESA.

### PCA 6: Former garage, maintenance and repair area (APEC 5)

- Two maintenance garages were previously located on the north western portion of the property.
- DCS found PAH and metals soil contamination in 2007 during the Phase II ESA.

PCAs which are believed to have resulted in negligible APECs include PCAs 7 and 8. The rationale for the conclusion that these APECs are of negligible concern is provided below:

### PCA 7: Chemical manufacturing, processing, and bulk storage (APEC 8)

• While the bulk chemical storage facility is of concern and adjacent to the property, it is not thought to impact the quality of the soil and groundwater at the property.

#### PCA 8: Rail yard, tracks, and spurs (APEC 9)

• While the Guelph Rail Line is of concern and adjacent to the property, it is not thought to impact the quality of the soil and groundwater at the property.

#### 7.4 PHASE ONE CONCEPTUAL SITE MODEL

A conceptual site model (CSM) is provided as DCS Drawing N<sup>o.</sup> 701996-001-3 at the rear of this report. The CSM covers the Phase One property and Phase One Study Area and indicates APECs on the site and the locations of PCAs potentially affecting the site. The property uses in the Phase One Study Area are also shown.

The PCAs indicated on the CSM which may potentially have affected the site include the placement of fill of unknown origin across the site; the former presence of a UST at the northeast corner of the site; former capacitor room; former sand mixer and foundry sumps; former maintenance garage; former core room, boiler and power house; and the former storage of PCBs.

APECs resulting from these PCAs include the fill soils across the site, the subsurface soil and groundwater underlying the site.

Potential contaminants of concern associated with these PCAs include metals, petroleum hydrocarbons, BTEX compounds, polychlorinated biphenyls, polycyclic aromatic hydrocarbons, and volatile organic compounds. Media potentially impacted includes the soil and groundwater underlying the site.

Based on the current findings, no changes were observed with respect to site conditions between the previous Phase I ESA completed by DCS and the present Phase One ESA.

#### 8.0 CONCLUSIONS

# 8.1 WHETHER PHASE TWO ESA REQUIRED BEFORE RECORD OF SITE CONDITION SUBMITTED

Based on observations made during the site visit and information gathered during the review of historic information, there is a potential that the soil and groundwater underlying the site may have been adversely affected by the presence of fill soils of unknown origin across the site; the former presence of a UST at the northeast corner of the site; former capacitor room; former sand mixer and foundry sumps; former maintenance garage; former core room, boiler and power house; and the former storage of PCBs.

It is recommended by DCS that a Phase Two Environmental Site Assessment be carried out on the site before submission of a Record of Site Condition (RSC).

#### 8.2 RECORD OF SITE CONDITION BASED ON PHASE ONE ESA ALONE

Based on the results of this investigation it has been determined that the site is not suitable for submission of a RSC based on the Phase One ESA alone. The presence of APECs on the site and PCAs both on the site and up-gradient of the site warrant the completion of a Phase Two ESA prior to submission of a RSC.

#### 8.3 SIGNATURES

The data review, facility investigation and interviewing for this Phase One ESA program was undertaken by Ms. Tu-Anh Nguyen, M. Eng. Ms. Nguyen reviewed, evaluated and interpreted the data. This report was prepared by Ms. Nguyen and reviewed by Mr. Stephen R. Prior, P.Eng.  $(QP_{ESA})$ , and Mr. Richard W. Browne, M.A.Sc., P.Eng.  $(QP_{ESA})$ ,  $(QP_{ESA})$ 

Résumés detailing the qualifications and technical experience of the site assessors are included in Appendix J.

Respectfully submitted,

**DECOMMISSIONING CONSULTING SERVICES** 

Tu-Anh Nguyen, M.Eng. Environmental Specialist

Stephen R. Prior, P.Eng. QP<sub>ESA</sub>

Senior Project Manager

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Senior Vice President

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153/04 (Records of Site Condition – Part XV.1 of the Act), filed December 29, 2009.

Sections of Environmental Investigations, Report Recommendation, prepared for International

Malleable Iron Company Limited by Proctor & Redfern Limited (P&R), dated August 1989.

Draft Environmental Investigation, International Malleable Iron Company, 200 Beverley Street,

Guelph, Ontario, prepared for the Bank of Montreal by P&R, dated 10 June 1991.

Final Draft for Discussion, Hydrogeologic Site Investigation, Former IMICO Foundry Site,

Guelph, Ontario, prepared for the City of Guelph by Gartner Lee Limited (Gartner Lee), dated

August 1998.

Supplemental Hydrogeologic Investigation, Former IMICO Site, prepared for the City of Guelph

by Gartner Lee, dated March 1999.

City of Guelph, Former IMICO Facility, Demolition and Waste Removal Report, prepared for the

City of Guelph by Earth Tech (Canada) Inc. (Earth Tech), dated October 1999.

Progress Report #6 from the City of Guelph to the MOE dated 23 August 2001

*Progress Report #7* from the City of Guelph to the MOE date 6 March 2002

Summary of Environmental Conditions and Resultant Redevelopment Constraints at 200

Beverley Street, Guelph, prepared by CH2M HILL Canada Limited dated 13 November 2003.

Phase One Environmental Site Assessment 200 Beverley Street, Guelph, Ontario 701996-001 – February 2014

Phase I Environmental Site Assessment, Former IMICO Property, 200 Beverley Street, Guelph, Ontario, prepared for the City of Guelph by DCS dated December 2007.

Phase II Environmental Site Assessment, Former IMICO Property, 200 Beverley Street, Guelph, Ontario, prepared for the City of Guelph by DCS dated December 2007.

Preliminary Remedial Action Plan, Former IMICO Property, 200 Beverley Street, Guelph, Ontario, prepared for the City of Guelph by DCS dated March 2008.

2011 Annual Groundwater Monitoring Report, Former IMICO Site, 200 Beverley Street, Guelph, Ontario, prepared for the City of Guelph by AECOM dated August 2013.

#### 10.0 USE AND LIMITATIONS OF THIS PHASE ONE ESA REPORT

The Phase One ESA scope of work involves inspection and the recording of readily observable environmental conditions on the Site that were available for direct observation at the time of the site visit and provides preliminary professional opinions about the likely environmental status of these portions of the Site based on our observations and experience, as well as by reference to historical records prepared by others. The Phase One ESA reports on conditions at the date the work was performed (November 2013) and as site conditions and other information presented can change, the Phase One ESA findings and interpretations may be altered with time.

The scope of a Phase One ESA inspection does not include systematic sampling and analysis of soil, groundwater or other materials. A Phase One ESA does not therefore provide definitive conclusions as to subsurface conditions and in particular whether these are within regulatory guidelines for soil and groundwater; nor can the potential for environmental issues be evaluated in inaccessible areas. Unless specifically requested by the client, a Phase One ESA does not include the testing of building materials or waste materials in on-site tanks or containers nor does it verify the completeness or accuracy of historical records referenced, e.g., as to historical uses on and around the Site and historical environmental incidents, if any, which could provide further insights into site conditions.

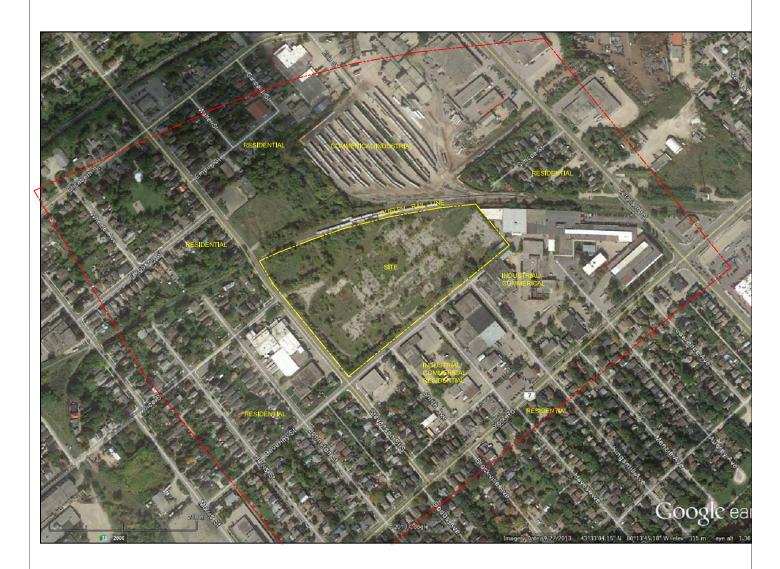
Due to these limitations on the scope of work for a Phase One ESA, it is possible that environmental conditions which affect the use or value of the Site are not referred to in this report. The Phase One ESA usually can only describe the likelihood of contamination being present or absent at a property. It is intended to reduce, but not necessarily eliminate, uncertainty regarding the potential for contamination of a property. Where this potential has been identified, the further reduction or elimination of uncertainty requires the performance of a Phase Two ESA.

This report has been prepared by DCS for the City of Guelph. DCS accepts no liability, whether in negligence, contract or arising on any other basis for damages or for indemnification arising from decisions or actions by others based on this report.

Phase One Environmental Site Assessment 200 Beverley Street, Guelph, Ontario 701996-001 – February 2014

# APPENDIX A

SITE PLAN







DECOMMISSIONING CONSULTING SERVICES

CITY OF GUELPH 200 BEVERLEY STREET, CITY OF GUELPH

**PHASE I ESA** 

SITE PLAN

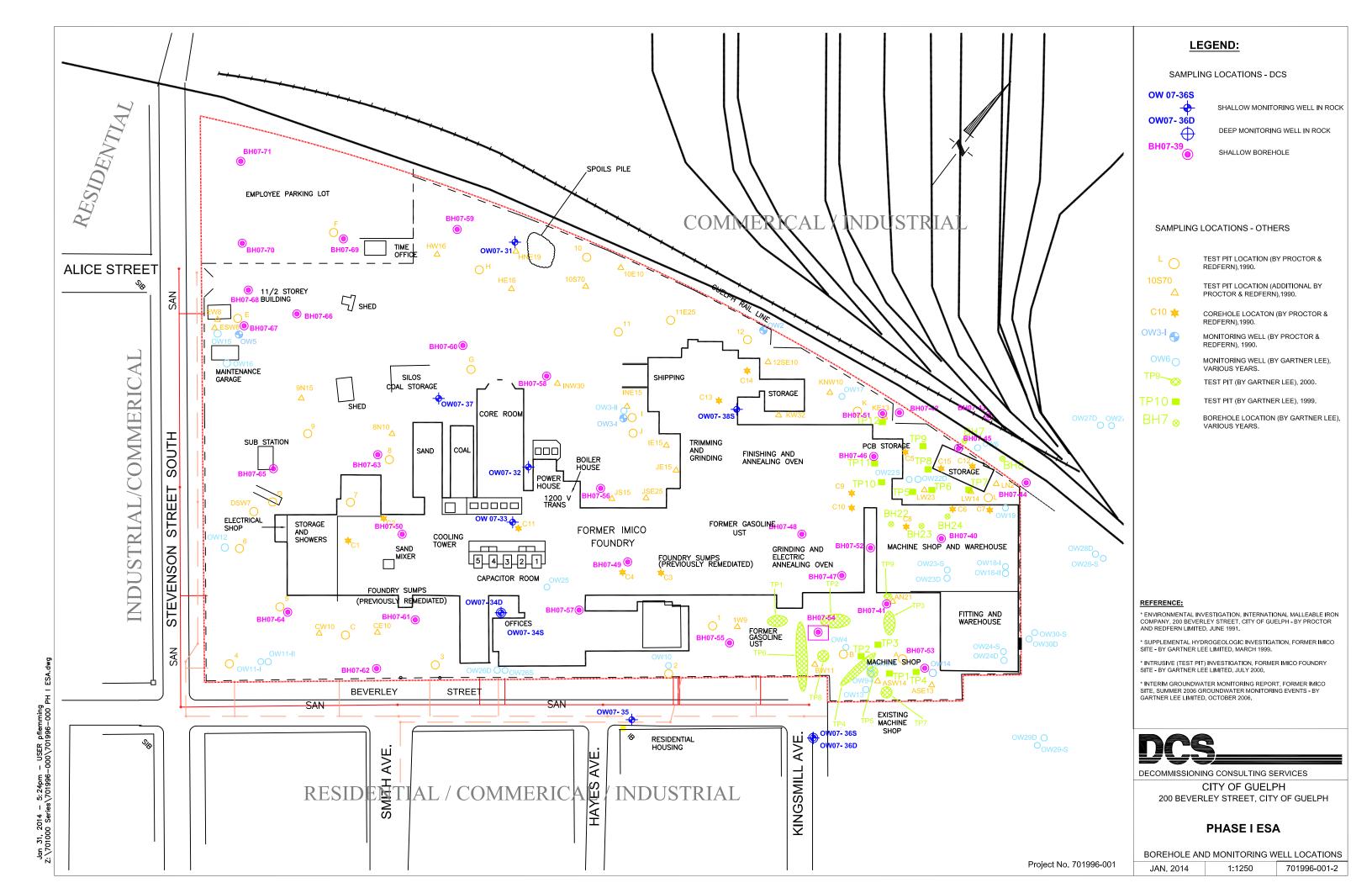
Jan 31, 2014 - 5: 25pm - USER pflemming Z: \701000 Series\701996-000\701996-000 PH I ESA.dwg

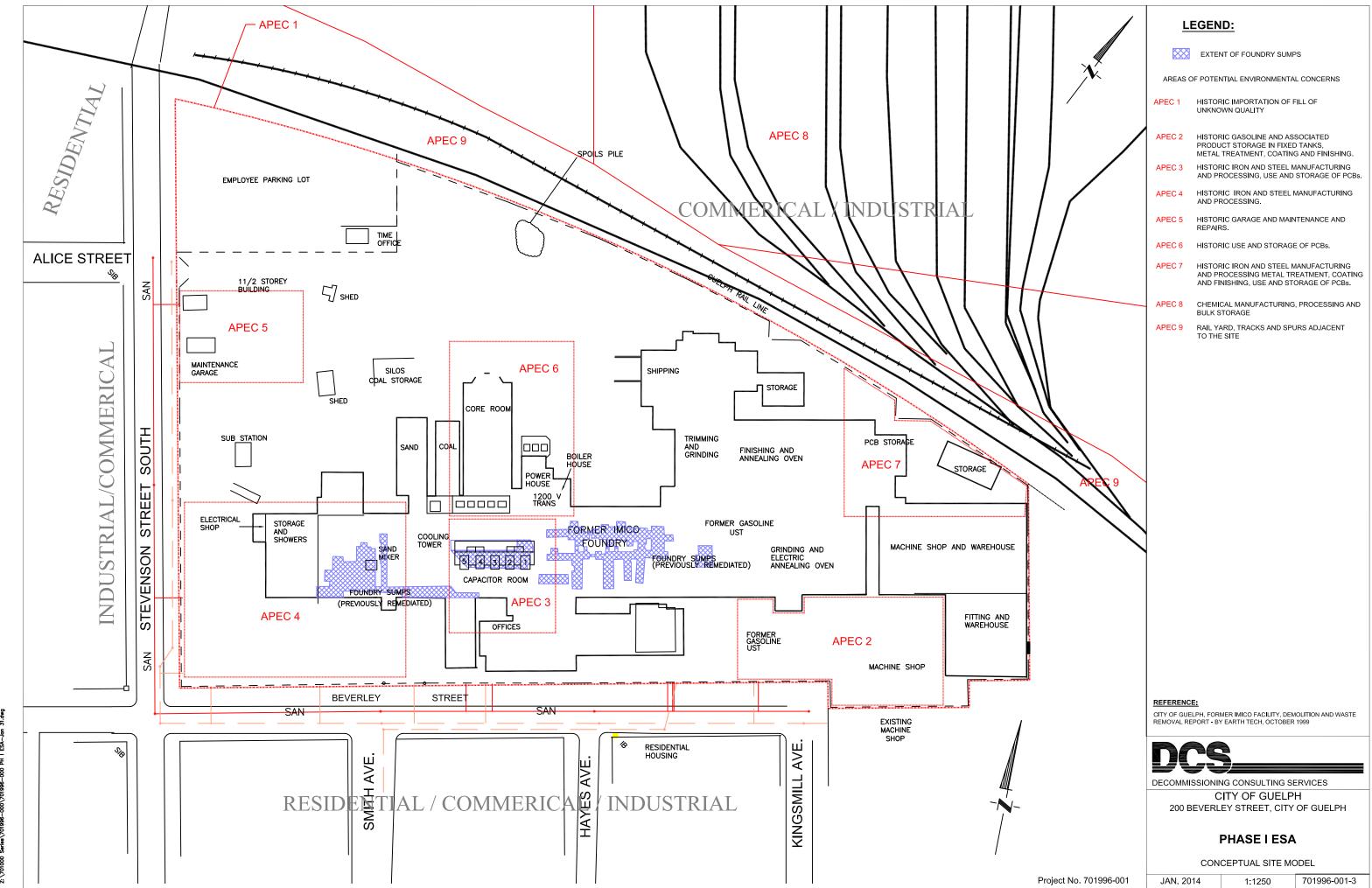
Project No 701996-001

JAN. 2014

N.T.S.

701996-001-1





31, 2014 - 6:35pm - USER pflemming

# APPENDIX B

**SITE PHOTOGRAPHS** 



**Photograph No. 1:** View of debris and discarded spray paint cans on the western boundary of the property, looking west.



**Photograph No. 2:** View of drums along foundation wall of the former machine shop and warehouse, looking north.



**Photograph No. 3:** Debris along the northeastern perimeter of the property, looking northeast.



**Photograph No. 4:** View of debris observed entering the property, looking north.



**Photograph No. 5:** View of drums observed at the time of the site inspection, looking east.



**Photograph No. 6:** View looking north on the property.



**Photograph No. 7:** View looking south on the property.



**Photograph No. 8:** View looking east on the property.



**Photograph No. 9:** View of the adjacent properties (railway and bulk storage facility) to the north.



Photograph No. 10: View of adjacent properties (Kingsmill Avenue) to the east

# **APPENDIX C**

**AERIAL PHOTOGRAPHS** 



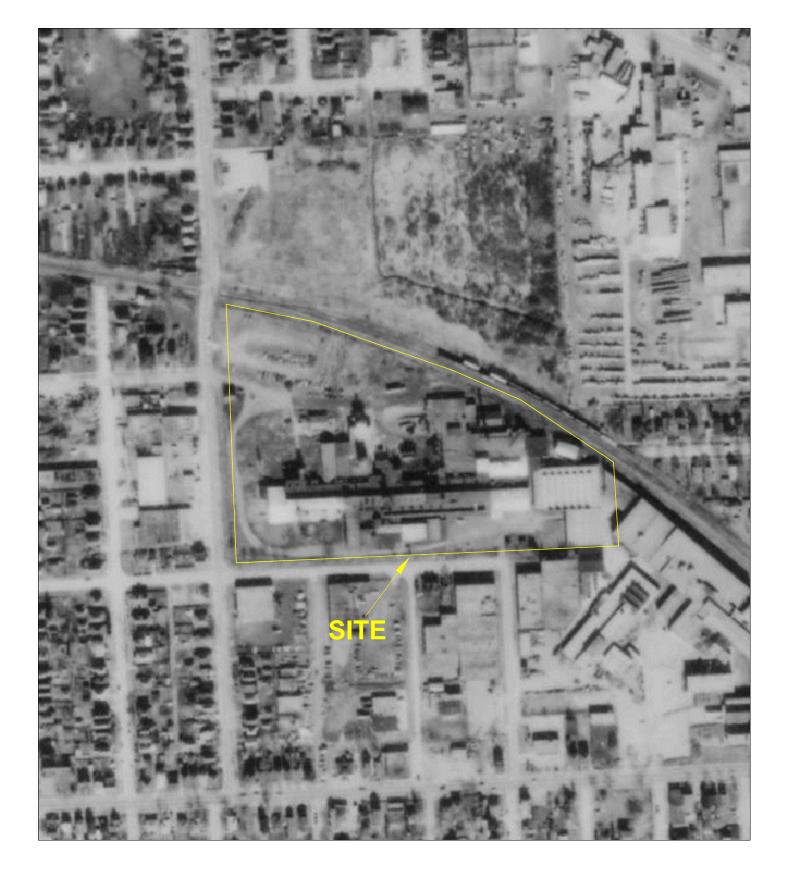
1930 AERIAL PHOTO Scale N.T.S.



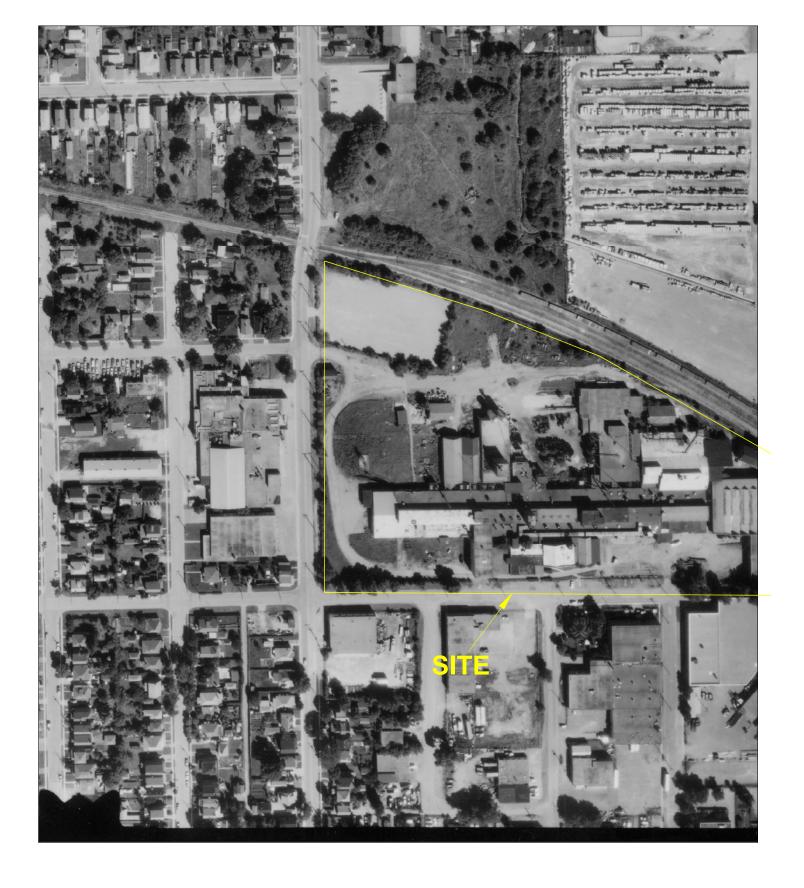
1964 AERIAL PHOTO Scale N.T.S.



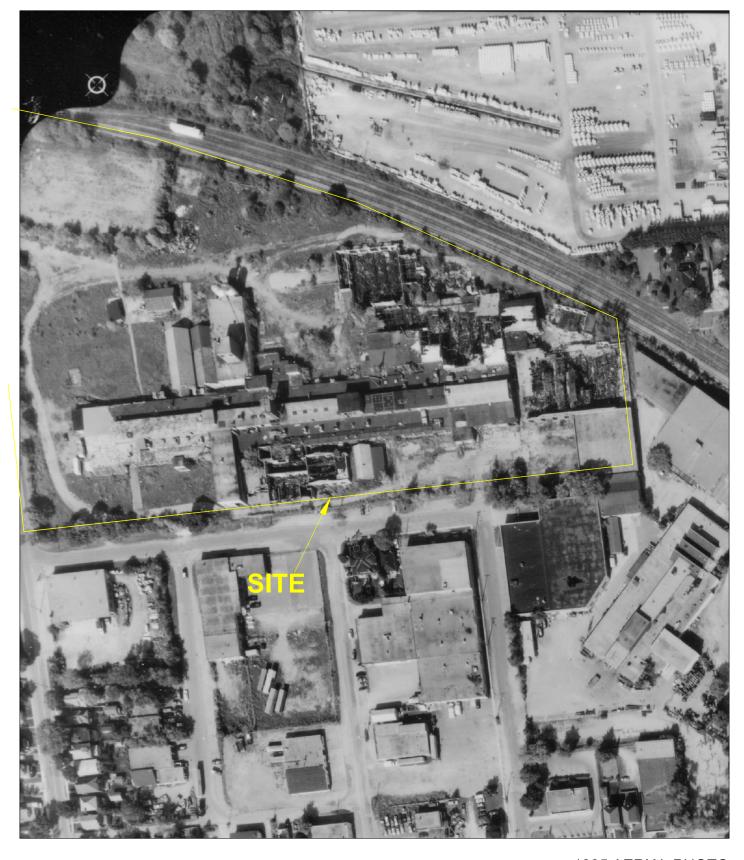
1972 AERIAL PHOTO Scale N.T.S.



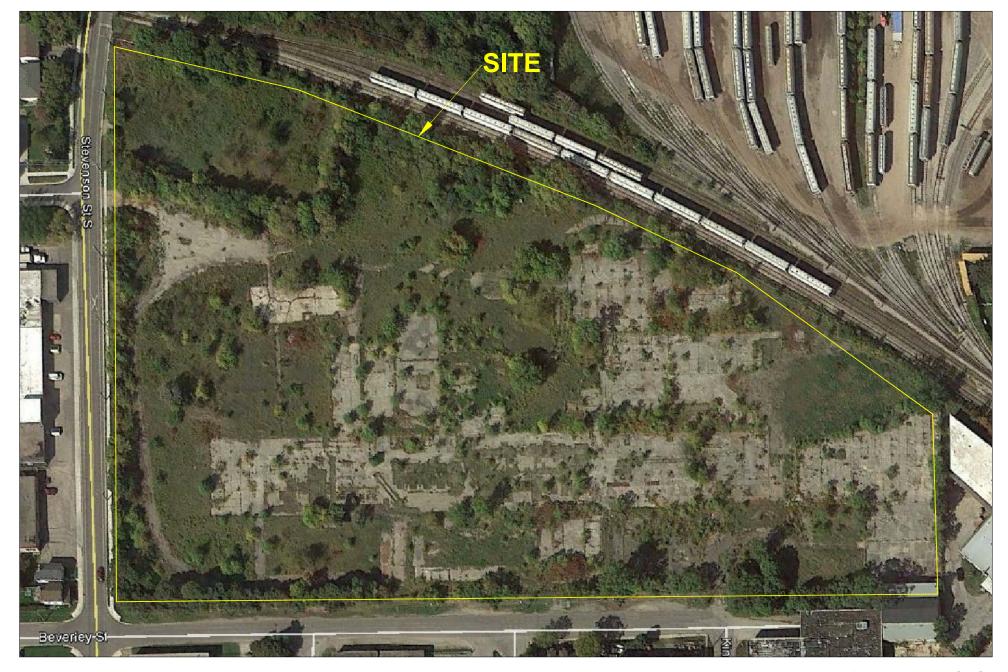
1981 AERIAL PHOTO Scale N.T.S.



1990 AERIAL PHOTO Scale N.T.S.



1995 AERIAL PHOTO Scale N.T.S.



2013 AERIAL PHOTO Scale N.T.S.

## APPENDIX D

FIRE INSURANCE PLANS

#### **Business solutions through Information technology**



CGI - Risk Management Services

9MAlistate markway Rth Cloor Markham, Ontario 1 3R Se3

Tel. (9MR) 474-MMB Cax. (9MR) 474-RSM4 www.cgi.com

#### **CGI Environmental Services**

#### Historical Environmental Reporting System (HEIRS™) December 5, 2006

Kathryn Shaw-Edmond **EcologERIS** 12 Concorde Place, Suite 800 Toronto, ON M3C 4J2

Regarding: 200 Beverly St, Guelph, ON

As requested, we have searched our records concerning the above site and the following information as listed below is appended hereto:

| Information  | Date(s)         |
|--|-----------------|
| Fire Insurance Plan(s) Property Underwriters' Report(s) Property Underwriters' Plan(s) | NRF<br>NO<br>NO |

NRF: No Records Found

NO: Not Ordered

Our invoice in the amount of \$ 40.00 (+ GST) for the information provided will follow in due course.

Thank you for employing the services of CGI.

Joan Majchrowski **Environmental Services** 

1 ew : eEsite – www.cji-iEs.cRp/iDR

#### TERMS AND CONDITIONS

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

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

Entire Agreement. The parties hereto acknowledge and agree to be bound by the terms and continuous terms of the parties hereto acknowledge and agree to be bound by the terms and continuous terms of the parties hereto acknowledge and agree to be bound by the terms and continuous terms of the parties hereto. The request form constitutes the entire agreement between the parties in connection with the subject matter hereof except as specifically set forth

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

## APPENDIX E

**ECOLOG ERIS REPORT** 







Project Property: 701996 - Phase One ESA

200 Beverley St Guelph ON N1E3C4

Standard Report

Order #: 20131028018

**Report Type:** 

Date: November 4, 2013

**EcoLog ERIS Ltd.** 

Environmental Risk Information Service Ltd. (ERIS) A division of Glacier Media Inc. P: 1.866.517.5204

E: info@erisinfo.com

www.erisinfo.com

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| Definitions.  |    |
|   |    |

#### **Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY**

**Reliance on information in Report:** This report DOES NOT replace a full Phase 1 Environmental Site Assessment but is solely intended to be used to focus further investigation.

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## **Executive Summary**

| _   |       |        |        |
|-----|-------|--------|--------|
| Pro | nortv | Inform | atınn. |
|     | DEILY | ,,,,   | auvii. |

**Project Property:** 701996 - Phase One ESA

200 Beverley St Guelph ON N1E3C4

Coordinates:

 Latitude:
 43.551327

 Longitude:
 -80.229462

 UTM Northing:
 4,822,330.08

 UTM Easting:
 562,240.90

 UTM Zone:
 UTM Zone 17T

Elevation: 1,033 FT

315.00 M

**Order Information:** 

 Order No.:
 20131028018

 Date Requested:
 05/11/2013

Requested by: Decommissioning Consulting Services Ltd.

Report Type: Standard Report

**Additional Products:** 

**Topographic Map**Ontario Base Map (OBM)

# Executive Summary: Report Summary

| Database    | Name  | Selected | On Site | Within 0.25KM | Total |
|-------------|---|----------|---------|---------------|-------|
| <u>AAGR</u> | Abandoned Aggregate Inventory                             | Υ        | 0       | 0             | 0     |
| <u>AGR</u>  | Aggregate Inventory                                       | Υ        | 0       | 0             | 0     |
| <u>AMIS</u> | Abandoned Mine Information System                         | Υ        | 0       | 0             | 0     |
| <u>ANDR</u> | Anderson's Waste Disposal Sites                           | Υ        | 0       | 0             | 0     |
| <u>AUWR</u> | Automobile Wrecking & Supplies                            | Υ        | 0       | 0             | 0     |
| <u>BORE</u> | Borehole  | Υ        | 0       | 0             | 0     |
| <u>CA</u>   | Certificates of Approval                                  | Υ        | 0       | 11            | 11    |
| <u>CFOT</u> | Commercial Fuel Oil Tanks                                 | Υ        | 0       | 0             | 0     |
| <u>CHEM</u> | Chemical Register   | Υ        | 0       | 0             | 0     |
| COAL        | Inventory of Coal Gasification Plants and Coal Tar Sites  | Υ        | 0       | 0             | 0     |
| CONV        | Compliance and Convictions                                | Υ        | 0       | 1             | 1     |
| <u>CPU</u>  | Certificates of Property Use                              | Υ        | 0       | 0             | 0     |
| <u>DRL</u>  | Drill Hole Database                                       | Υ        | 0       | 0             | 0     |
| <u>EASR</u> | Environmental Activity and Sector Registry                | Υ        | 0       | 0             | 0     |
| <u>EBR</u>  | Environmental Registry                                    | Υ        | 0       | 7             | 7     |
| <u>ECA</u>  | Environmental Compliance Approval                         | Υ        | 0       | 0             | 0     |
| <u>EEM</u>  | Environmental Effects Monitoring                          | Υ        | 0       | 0             | 0     |
| <u>EHS</u>  | ERIS Historical Searches                                  | Υ        | 2       | 4             | 6     |
| <u>EIIS</u> | Environmental Issues Inventory System                     | Υ        | 0       | 0             | 0     |
| <u>EXP</u>  | List of TSSA Expired Facilities                           | Υ        | 0       | 3             | 3     |
| <u>FCON</u> | Federal Convictions                                       | Υ        | 0       | 0             | 0     |
| <u>FCS</u>  | Contaminated Sites on Federal Land                        | Υ        | 0       | 0             | 0     |
| <u>FOFT</u> | Fisheries & Oceans Fuel Tanks                             | Υ        | 0       | 0             | 0     |
| <u>FST</u>  | Fuel Storage Tank   | Υ        | 0       | 7             | 7     |
| <u>GEN</u>  | Ontario Regulation 347 Waste Generators Summary           | Υ        | 10      | 47            | 57    |
| <u>HINC</u> | TSSA Historic Incidents                                   | Υ        | 0       | 0             | 0     |
| <u>IAFT</u> | Indian & Northern Affairs Fuel Tanks                      | Υ        | 0       | 0             | 0     |
| <u>INC</u>  | TSSA Incidents  | Υ        | 0       | 0             | 0     |
| <u>LIMO</u> | Landfill Inventory Management Ontario                     | Υ        | 0       | 0             | 0     |
| <u>MINE</u> | Canadian Mine Locations                                   | Υ        | 0       | 0             | 0     |
| <u>MNR</u>  | Mineral Occurrences                                       | Υ        | 0       | 0             | 0     |
| <u>NATE</u> | National Analysis of Trends in Emergencies System (NATES) | Υ        | 0       | 0             | 0     |
| <u>NCPL</u> | Non-Compliance Reports                                    | Υ        | 0       | 0             | 0     |
| <u>NDFT</u> | National Defence & Canadian Forces Fuel Tanks             | Υ        | 0       | 0             | 0     |
| <u>NDSP</u> | National Defence & Canadian Forces Spills                 | Υ        | 0       | 0             | 0     |
| <u>NDWD</u> | National Defence & Canadian Forces Waste Disposal Sites   | Υ        | 0       | 0             | 0     |
| <u>NEES</u> | National Environmental Emergencies System (NEES)          | Υ        | 0       | 0             | 0     |
| <u>NPCB</u> | National PCB Inventory                                    | Υ        | 0       | 0             | 0     |

| Database    | Name   | Selected | On Site | Within 0.25KM | Total |
|-------------|--|----------|---------|---------------|-------|
| <u>NPRI</u> | National Pollutant Release Inventory                             | Υ        | 0       | 5             | 5     |
| <u>OGW</u>  | Oil and Gas Wells  | Υ        | 0       | 0             | 0     |
| <u>OOGW</u> | Ontario Oil and Gas Wells  | Υ        | 0       | 0             | 0     |
| <u>OPCB</u> | Inventory of PCB Storage Sites                                   | Y        | 1       | 0             | 1     |
| <u>ORD</u>  | Orders   | Υ        | 0       | 0             | 0     |
| <u>PAP</u>  | Canadian Pulp and Paper  | Υ        | 0       | 0             | 0     |
| <u>PCFT</u> | Parks Canada Fuel Storage Tanks                                  | Υ        | 0       | 0             | 0     |
| <u>PES</u>  | Pesticide Register   | Y        | 0       | 2             | 2     |
| <u>PINC</u> | TSSA Pipeline Incidents  | Y        | 0       | 0             | 0     |
| <u>PRT</u>  | Private and Retail Fuel Storage Tanks                            | Υ        | 0       | 3             | 3     |
| <u>PTTW</u> | Permit to Take Water   | Υ        | 0       | 0             | 0     |
| <u>REC</u>  | Ontario Regulation 347 Waste Receivers Summary                   | Υ        | 0       | 0             | 0     |
| <u>RSC</u>  | Record of Site Condition   | Υ        | 0       | 0             | 0     |
| <u>RST</u>  | Retail Fuel Storage Tanks  | Υ        | 0       | 2             | 2     |
| <u>SCT</u>  | Scott's Manufacturing Directory                                  | Υ        | 0       | 24            | 24    |
| <u>SPL</u>  | Ontario Spills   | Υ        | 1       | 2             | 3     |
| <u>SRDS</u> | Wastewater Discharger Registration Database                      | Υ        | 0       | 0             | 0     |
| <u>TANK</u> | Anderson's Storage Tanks   | Υ        | 0       | 0             | 0     |
| <u>TCFT</u> | Transport Canada Fuel Storage Tanks                              | Υ        | 0       | 0             | 0     |
| <u>VAR</u>  | TSSA Variances for Abandonment of Underground Storage<br>Tanks   | Υ        | 0       | 0             | 0     |
| <u>WDS</u>  | Waste Disposal Sites - MOE CA Inventory                          | Υ        | 0       | 0             | 0     |
| <u>WDSH</u> | Waste Disposal Sites - MOE 1991 Historical Approval<br>Inventory | Y        | 0       | 0             | 0     |
| <u>WWIS</u> | Water Well Information System                                    | Y        | 0       | 16            | 16    |
|             |  | Total:   | 14      | 134           | 148   |

# Executive Summary: Site Report Summary – Project Property

| Map<br>Key | DB   | Company/Site Name                          | Address   | Dis m | Elev<br>diff m | Page<br>Number |
|------------|------|--|---|-------|----------------|----------------|
| 2          | EHS  |  | 200 Beverley St Guelph ON   | 73.1  | 0.00           | 14             |
| 2          | EHS  |  | 200 Beverley Street Guelph ON   | 73.1  | 0.00           | 14             |
| 2          | GEN  | INTERNTN'L MALLEABLE IRON CO<br>LTD 21-131 | 200 BEVERLY ST. GUELPH ON<br>N1E 3C4  | 73.1  | 0.00           | 14             |
| 2          | GEN  | INTERNTN'L MALLEABLE IRON CO.<br>LIMITED   | 200 BEVERLY STREET GUELPH<br>ON N1E 3C4                                     | 73.1  | 0.00           | 14             |
| 2          | GEN  | INTERNTN'L MALLEABLE IRON CO<br>LTD        | 200 BEVERLY ST. GUELPH ON N1E 3C4   | 73.1  | 0.00           | 15             |
| 2          | GEN  | INTERNTN'L MALLEABLE IRON CO<br>LTD        | 200 BEVERLY ST. P.O. BOX 180<br>GUELPH ON N1H 6K1                           | 73.1  | 0.00           | 15             |
| 2          | GEN  | City of Guelph                             | 200 Beverley Street GUELPH ON   | 73.1  | 0.00           | 15             |
| 2          | GEN  | City of Guelph                             | 200 Beverley Street GUELPH ON   | 73.1  | 0.00           | 16             |
| 2          | GEN  | GUELPH, CITY OF                            | 200 BEVERLEY STREET GUELPH<br>ON N1E 3C4                                    | 73.1  | 0.00           | 16             |
| 2          | GEN  | City of Guelph Engineering                 | 200 Beverley Street GUELPH ON N1E 3C4                                       | 73.1  | 0.00           | 16             |
| 2          | GEN  | City of Guelph                             | 200 Beverley Street GUELPH ON N1E 3C4                                       | 73.1  | 0.00           | 16             |
| 2          | GEN  | City of Guelph                             | 200 Beverley Street GUELPH ON   | 73.1  | 0.00           | 17             |
| 2          | OPCB | INTERNATIONAL MALLEABLE IRON               | BEVERLY STREET GUELPH ON  | 73.1  | 0.00           | 17             |
| 2          | SPL  | INTERNATIONAL MALLEABLE IRON<br>C          | 200 BEVERLEY STREET GUELPH<br>PLANT 200<br>BEVERLY STREET GUELPH CITY<br>ON | 73.1  | 0.00           | 17             |

# Executive Summary: Site Report Summary – Surrounding Properties

| Map<br>Key | DB   | Company/Site Name                      | Address   | Dis m | Elev<br>Diff m | Page<br>Number |
|------------|------|--|---|-------|----------------|----------------|
| 1          | WWIS |  | ON  | 58.2  | 0.00           | 17             |
| <u>2</u>   | CONV | INTERNATIONAL MALLEABLE<br>IRON C      | ON  | 73.1  | 0.00           | 18             |
| <u>3</u>   | NPRI | ABS FRICTION                           | 10 Kingsmill Avenue Guelph ON N1E 5V9           | 118.2 | 0.00           | 19             |
| <u>3</u>   | NPRI | ABS Friction Corp.                     | 10 Kingsmill Avenue Guelph ON N1E 5V9           | 118.2 | 0.00           | 19             |
| <u>3</u>   | NPRI | ABS Friction Corp.                     | 10 Kingsmill Avenue Guelph ON N1E 5V9           | 118.2 | 0.00           | 19             |
| <u>3</u>   | NPRI | ABS FRICTION                           | 10 Kingsmill Avenue Guelph ON N1E 5V9           | 118.2 | 0.00           | 20             |
| <u>4</u>   | CA   | LINREAD CANADA LTD.                    | 24 HAYES AVE. GUELPH CITY ON N1E 5V5            | 139.1 | 0.00           | 20             |
| <u>4</u>   | CA   | LINREAD CANADA LTD.                    | 24 HAYES AVE. GUELPH CITY ON N1E 5V5            | 139.1 | 0.00           | 20             |
| <u>4</u>   | EHS  |  | 24 Hayes Avenue Guelph ON N1E 5V5               | 139.1 | 0.00           | 21             |
| <u>4</u>   | GEN  | 702920 ONTARIO<br>INC./GATTO/VANPOUCKE | 24 HAYES AVENUE UNIT #1 GUELPH<br>ON N1E 5V5    | 139.1 | 0.00           | 21             |
| <u>4</u>   | GEN  | DALTEC INDUSTRIES LTD.                 | 24 HAYES AVENUE GUELPH ON N1E 5V5               | 139.1 | 0.00           | 21             |
| <u>4</u>   | GEN  | LINREAD CANADA LTD<br>24-021           | 24 HAYES AVE. P.O. BOX 540<br>GUELPH ON N1E 5V5 | 139.1 | 0.00           | 22             |
| <u>4</u>   | GEN  | 702920 ONTARIO<br>INC./GATTO/VANPOUCKE | 24 HAYES AVENUE, UNIT #1<br>GUELPH ON N1E 5V5   | 139.1 | 0.00           | 22             |
| <u>4</u>   | GEN  | 702920 ONTARIO<br>INC./GATTO/VANPOUCKE | 24 HAYES AVENUE, UNIT #1<br>GUELPH ON N1E 5V5   | 139.1 | 0.00           | 22             |
| <u>4</u>   | GEN  | 702920 ONTARIO<br>INC./GATTO/VANPOUCKE | 24 HAYES AVENUE, UNIT #1<br>GUELPH ON N1E 5V5   | 139.1 | 0.00           | 22             |
| <u>4</u>   | GEN  | JET (OUT OF BUS)                       | 24 HAYES AVENUE UNIT #2 GUELPH<br>ON N1E 5V5    | 139.1 | 0.00           | 23             |
| <u>4</u>   | GEN  | LINREAD CANADA LTD                     | 24 HAYES AVE. P.O. BOX 540<br>GUELPH ON N1E 5V5 | 139.1 | 0.00           | 23             |
| <u>4</u>   | SCT  | INDUSTRIAL PROCESS EQUIPMENT           | 24 HAYES AVE GUELPH ON N1E 5V5                  | 139.1 | 0.00           | 23             |
| <u>4</u>   | SCT  | KERSTING INDUSTRIES LTD.               | 24 HAYES AVE UNIT 1 GUELPH ON<br>N1E 5V5        | 139.1 | 0.00           | 23             |
| <u>4</u>   | SCT  | DALTEC INDUSTRIES LTD                  | 24 HAYES AVE GUELPH ON N1E 5V5                  | 139.1 | 0.00           | 24             |
| <u>4</u>   | SCT  | Daltec Industries Ltd.                 | 24 Hayes Ave Guelph ON N1E 5V5                  | 139.1 | 0.00           | 24             |
| <u>4</u>   | SCT  | ALLEN SIMPSON MARKETING & DSGN         | 24 HAYES AVE GUELPH ON N1E 5V5                  | 139.1 | 0.00           | 24             |

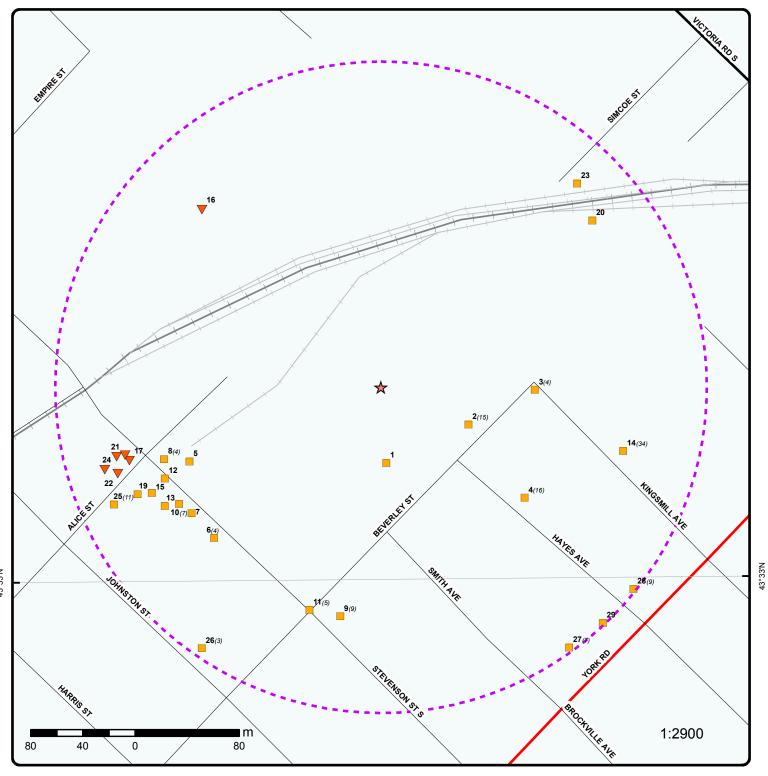
| Map<br>Key | DB   | Company/Site Name                                 | Address                                   | Dis m | Elev<br>Diff m | Page<br>Numbe |
|------------|------|---|---|-------|----------------|---------------|
| <u>5</u>   | WWIS |   | ON  | 157.6 | 0.00           | 24            |
| <u>6</u>   | SCT  | GEORGE'S FURNITURE & CABINET                      | 147 STEVENSON ST S GUELPH ON N1E 5N6      | 172.6 | 0.00           | 25            |
| <u>6</u>   | SCT  | GEORGE'S GALERIA                                  | 147 Stevenson St S Guelph ON N1E 5N6      | 172.6 | 0.00           | 25            |
| <u>6</u>   | SCT  | Giorgio's Galeria                                 | 147 Stevenson St S Guelph ON N1E 5N6      | 172.6 | 0.00           | 25            |
| <u>6</u>   | SCT  | George's Furniture                                | 147 Stevenson St S Guelph ON N1E 5N6      | 172.6 | 0.00           | 26            |
| Z          | SCT  | CLEAR CHOICE WINDOW MFG.                          | 145 STEVENSON ST S GUELPH ON<br>N1E 5N6   | 174.5 | 0.00           | 26            |
| <u>8</u>   | WWIS |   | ON  | 175.3 | 0.00           | 26            |
| <u>8</u>   | WWIS |   | ON  | 175.3 | 0.00           | 27            |
| <u>8</u>   | WWIS |   | ON  | 175.3 | 0.00           | 27            |
| <u>8</u>   | WWIS |   | ON  | 175.3 | 0.00           | 28            |
| 9          | EBR  | Insitu Contractors Inc.                           | Guelph ON                                 | 178.5 | 0.00           | 28            |
| <u>9</u>   | EBR  | Insitu Contractors Inc.                           | Guelph ON N1E 5N7                         | 178.5 | 0.00           | 29            |
| <u>9</u>   | EBR  | Insitu Contractors Inc.                           | Guelph ON N1E 5N7                         | 178.5 | 0.00           | 29            |
| <u>9</u>   | GEN  | Insitu Contractors Inc.                           | 150 Stevenson St S Guelph ON N1E<br>5N7   | 178.5 | 0.00           | 29            |
| 9          | GEN  | Insitu Contractors Inc.                           | 150 Stevenson St S Guelph ON N1E 5N7      | 178.5 | 0.00           | 29            |
| 9          | GEN  | Insitu Contractors Inc.                           | 150 Stevenson St S Guelph ON N1E 5N7      | 178.5 | 0.00           | 30            |
| <u>9</u>   | GEN  | Insitu Contractors Inc.                           | 150 Stevenson St S Guelph ON N1E<br>5N7   | 178.5 | 0.00           | 30            |
| <u>9</u>   | GEN  | Insitu Contractors Inc.                           | 150 Stevenson St S Guelph ON N1E<br>5N7   | 178.5 | 0.00           | 30            |
| <u>9</u>   | SCT  | Insitu Contractors Inc.                           | 150 Stevenson St S Guelph ON N1E 5N7      | 178.5 | 0.00           | 30            |
| <u>10</u>  | CA   | Choice Enterprises & Transportation Services Inc. | 143 Stevenson St S Guelph ON N1E 5N6      | 178.9 | 0.00           | 31            |
| <u>10</u>  | GEN  | Choice Enterprises + Transportation Services Inc. | 143 Stevenson St. South Guelph ON N1E 5N6 | 178.9 | 0.00           | 31            |
| <u>10</u>  | GEN  | Choice Enterprises + Transportation Services Inc. | 143 Stevenson St. South Guelph ON N1E 5N6 | 178.9 | 0.00           | 31            |
| <u>10</u>  | GEN  | Choice Enterprises + Transportation Services Inc. | 143 Stevenson St. South Guelph ON         | 178.9 | 0.00           | 32            |
| <u>10</u>  | GEN  | Choice Enterprises + Transportation Services Inc. | 143 Stevenson St. South Guelph ON N1E 5N6 | 178.9 | 0.00           | 32            |
| <u>10</u>  | GEN  | Choice Enterprises + Transportation Services Inc. | 143 Stevenson St. South Guelph ON N1E 5N6 | 178.9 | 0.00           | 32            |
| <u>10</u>  | SCT  | Choice Enterprises Inc.                           | 143 Stevenson St S Guelph ON N1E<br>5N6   | 178.9 | 0.00           | 32            |

| Map<br>Key | DB   | Company/Site Name                   | Address   | Dis m | Elev<br>Diff m | Page<br>Numbe |
|------------|------|-------------------------------------|---|-------|----------------|---------------|
| <u>11</u>  | CA   | TALLON METAL TECHNOLOGIES INC LOT 1 | STEVENSON ST./BEVERLY ST.<br>GUELPH CITY ON                                     | 179.6 | 0.00           | 33            |
| <u>11</u>  | GEN  | GUELPH HYDRO 18-<br>344             | SOUTH C/O 104 DAWSON ROAD   | 179.6 | 0.00           | 33            |
| <u>11</u>  | GEN  | GUELPH HYDRO                        | GUELPH ON N1H 1A7<br>BEVERLEY ST. AT STEVENSON ST.<br>SOUTH GUELPH ON N1H 1A7   | 179.6 | 0.00           | 33            |
| <u>11</u>  | GEN  | GUELPH HYDRO                        | BEVERLEY STREET AT STEVENSON<br>STREET SOUTH GUELPH ON                          | 179.6 | 0.00           | 33            |
| <u>11</u>  | GEN  | GUELPH HYDRO                        | BEVERLEY ST. AT STEVENSON ST.<br>SOUTH C/O 104 DAWSON ROAD<br>GUELPH ON N1H 1A7 | 179.6 | 0.00           | 34            |
| <u>12</u>  | WWIS |                                     | ON  | 180.1 | 0.00           | 34            |
| <u>13</u>  | wwis |                                     | ON  | 189.2 | 0.00           | 35            |
| <u>14</u>  | CA   | ABS Friction Corp.                  | 10 Kingsmill Avenue Guelph ON   | 192.3 | 0.00           | 35            |
| <u>14</u>  | CA   | ABS Friction Inc.                   | 10 Kingsmill Ave Guelph ON  | 192.3 | 0.00           | 36            |
| <u>14</u>  | CA   |                                     | 10 Kingsmill Avenue Guelph ON N1E 5V9   | 192.3 | 0.00           | 36            |
| <u>14</u>  | CA   | ABS FRICTION INC.                   | 10 KINGSMILL AVENUE GUELPH<br>CITY ON N1E 5V9                                   | 192.3 | 0.00           | 36            |
| <u>14</u>  | CA   | ABS Friction Corp.                  | 10 Kingsmill Ave Guelph ON  | 192.3 | 0.00           | 37            |
| <u>14</u>  | EBR  | ABS Friction Inc.                   | 10 Kingsmill Avenue Guelph ON N1E 5V9   | 192.3 | 0.00           | 37            |
| <u>14</u>  | EBR  | ABS Friction Corp.                  | 10 Kingsmill Avenue Guelph ON N1E 5V9   | 192.3 | 0.00           | 37            |
| <u>14</u>  | EBR  | ABS Friction Inc.                   | City of Guelph ON   | 192.3 | 0.00           | 37            |
| <u>14</u>  | EBR  | ABS Friction Inc                    | 10 Kingsmill Avenue Guelph ON N1E 5V9   | 192.3 | 0.00           | 38            |
| <u>14</u>  | EHS  |                                     | 10 Kingsmill Avenue Guelph ON N1E 5V9   | 192.3 | 0.00           | 38            |
| <u>14</u>  | EHS  |                                     | 10 Kingsmill Ave Guelph ON N1E 5V9  | 192.3 | 0.00           | 38            |
| <u>14</u>  | GEN  | 2049936 Ontario Ltd                 | 10 Kingsmill Ave Guelph ON N1E 5V9  | 192.3 | 0.00           | 38            |
| <u>14</u>  | GEN  | ABS FRICTION INC.                   | 10 Kingsmill Avenue Guelph ON   | 192.3 | 0.00           | 39            |
| <u>14</u>  | GEN  | GUELPH (OUT OF BUSINESS)D           | 10 KINGSMILL AVENUE GUELPH ON N1E 5V9   | 192.3 | 0.00           | 39            |
| <u>14</u>  | GEN  | ABS FRICTION INC.                   | 10 Kingsmill Avenue Guelph ON   | 192.3 | 0.00           | 39            |
| <u>14</u>  | GEN  | ABS FRICTION INC.                   | 10 Kingsmill Avenue Guelph ON   | 192.3 | 0.00           | 39            |
| <u>14</u>  | GEN  | GUELPH TOOL & DIE LIMITED           | 10 KINGSMILL AVE. GUELPH ON<br>N1E 5V9  | 192.3 | 0.00           | 40            |
| <u>14</u>  | GEN  | ABS FRICTION CORP.                  | 10 Kingsmill Avenue Guelph ON N1E<br>5V9  | 192.3 | 0.00           | 40            |
| <u>14</u>  | GEN  | GUELPH TOOL & DIE LIMITED           | 10 KINGSMILL AVENUE GUELPH ON<br>N1E 5V9  | 192.3 | 0.00           | 40            |

| Map<br>Key |      | Company/Site Name                          | Address   | Dis m | Elev<br>Diff m | Page<br>Numbe |
|------------|------|--|---|-------|----------------|---------------|
| <u>14</u>  | GEN  | CAMPBELL-COX FABRICATIONS                  | 10 KINGS MILL ROAD C/O 367<br>WOODLAWN ROAD WEST GUELPH                             | 192.3 | 0.00           | 41            |
| <u>14</u>  | GEN  | CAMPBELL-COX(OUT OF BUS)<br>07-111         | ON N1E 5V9<br>10 KINGS MILL ROAD C/O 367<br>WOODLAWN ROAD WEST GUELPH<br>ON N1E 5V9 | 192.3 | 0.00           | 41            |
| <u>14</u>  | GEN  | ABS FRICTION INC.                          | 10 KINGSMILL AVENUE GUELPH ON<br>N1E 5V9  | 192.3 | 0.00           | 41            |
| <u>14</u>  | NPRI | ABS Friction Inc.                          | 10 Kingsmill Avenue Guelph ON N1E 5V9   | 192.3 | 0.00           | 42            |
| <u>14</u>  | PES  | KROSHERRA CORPORATION<br>(17528 - 04/2014) | 10 KINGSMILL AVE GUELPH ON N1E 5V9  | 192.3 | 0.00           | 42            |
| <u>14</u>  | PES  | KROSHERRA CORPORATION<br>(17528 - 04/2014) | 10 KINGSMILL AVE<br>GUELPH ON N1E5V9  | 192.3 | 0.00           | 42            |
| <u>14</u>  | SCT  | ABS Friction Inc.                          | 10 Kingsmill Ave Guelph ON N1E 5V9  | 192.3 | 0.00           | 42            |
| <u>14</u>  | SCT  | Superior Steel Fabricators                 | 10 Kingsmill Ave Guelph ON N1E 5V9  | 192.3 | 0.00           | 43            |
| <u>14</u>  | SCT  | ABS Friction Corp.                         | 10 Kingsmill Ave Guelph ON N1E 5V9  | 192.3 | 0.00           | 43            |
| <u>14</u>  | SCT  | EASTWING WOOD SPECIALTIES                  | 10 KINGSMILL AVE REAR BLDG<br>GUELPH ON N1E 5V9                                     | 192.3 | 0.00           | 43            |
| <u>14</u>  | SCT  | THOMPSON DIV OF VALCOM LTD                 | 10 KINGSMILL AVE GUELPH ON N1E 5V9  | 192.3 | 0.00           | 43            |
| <u>14</u>  | SCT  | WENA MFG. CO. LTD.                         | 10-A KINGSMILL AVE GUELPH ON<br>N1E 5V9   | 192.3 | 0.00           | 43            |
| <u>14</u>  | SCT  | Wena Manufacturing Co. Ltd.                | 10 Kingsmill Rd Guelph ON N1E 5V9   | 192.3 | 0.00           | 44            |
| <u>14</u>  | SCT  | Wena Manufacturing Co. Ltd.                | 10 Kingsmill Ave Guelph ON N1E 5V9  | 192.3 | 0.00           | 44            |
| <u>14</u>  | SPL  | Superior Steel Fabricators                 | 10 Kingsmill Ave Guelph ON N1E 5V9  | 192.3 | 0.00           | 44            |
| <u>15</u>  | WWIS |  | ON  | 193.7 | 0.00           | 44            |
| <u>16</u>  | WWIS |  | ON  | 193.7 | -1.00          | 45            |
| <u>17</u>  | WWIS |  | ON  | 200.9 | -0.01          | 45            |
| <u>18</u>  | EHS  |  | 212 Alice Street Guelph ON N1E 3A8  | 203.0 | -0.17          | 46            |
| <u>18</u>  | GEN  | Aim Waste Management                       | 212 Alice Street Guelph ON N1E 3A8  | 203.0 | -0.17          | 46            |
| <u>18</u>  | GEN  | EARL SMITH                                 | 212 ALICE STREET GUELPH ON N1E 3A8  | 203.0 | -0.17          | 46            |
| <u>18</u>  | GEN  | EARL SMITH                                 | 212 ALICE STREET GUELPH ON N1E 3A8  | 203.0 | -0.17          | 46            |
| <u>18</u>  | GEN  | STANTEC CONSULTING INC.                    | 212 ALICE STREET GUELPH ON N1E 3A8  | 203.0 | -0.17          | 47            |
| <u>19</u>  | WWIS |  | ON  | 203.9 | 0.00           | 47            |
| <u>20</u>  | WWIS |  | ON  | 206.5 | 0.00           | 47            |
| <u>21</u>  | WWIS |  | ON  | 209.7 | -0.31          | 48            |
|            |      |  |   |       |                |               |

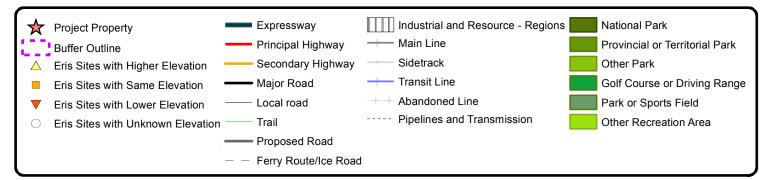
| Map<br>Key | DB   | Company/Site Name                                    | Address  | Dis m | Elev<br>Diff m | Page<br>Numbe |
|------------|------|--|--|-------|----------------|---------------|
| <u>22</u>  | WWIS |  | ON   | 212.4 | -0.05          | 48            |
| <u>23</u>  | GEN  | Bentley Mobile Veterinary Service                    | 1 Simcoe Street Guelph ON N1E 3B7                          | 217.2 | 0.00           | 49            |
| <u>24</u>  | WWIS |  | ON   | 221.1 | -0.54          | 49            |
| <u>25</u>  | CA   | FOSECO CANADA INC.                                   | ALICE STREET GUELPH CITY ON                                | 223.9 | 0.00           | 50            |
| <u>25</u>  | CA   | FOSECO CANADA INC.                                   | ALICE STREET GUELPH CITY ON                                | 223.9 | 0.00           | 50            |
| <u>25</u>  | GEN  | BP CANADA ENERGY COMPANY                             | 201 ALICE STREET GUELPH ON N1E 3A7                         | 223.9 | 0.00           | 50            |
| <u>25</u>  | GEN  | FOSECO CANADA INC.<br>15-151                         | 201 ALICE STREET GUELPH ON N1E 3A7                         | 223.9 | 0.00           | 50            |
| <u>25</u>  | GEN  | FOSECO CANADA INC.(OUT OF BUSINESS)                  | 201 ALICE STREET GUELPH ON N1E 3A7                         | 223.9 | 0.00           | 51            |
| <u>25</u>  | GEN  | FOSECO CANADA INC.                                   | 201 ALICE STREET C/O 361<br>SPEEDVALE AVENUE WEST          | 223.9 | 0.00           | 52            |
| <u>25</u>  | GEN  | BP CANADA ENERGY COMPANY                             | GUELPH ON N1E 3A7<br>201 ALICE STREET GUELPH ON N1E<br>3A7 | 223.9 | 0.00           | 53            |
| <u>25</u>  | GEN  | BP CANADA  | 201 ALICE STREET GUELPH ON N1E 3A7                         | 223.9 | 0.00           | 53            |
| <u>25</u>  | GEN  | Bryco Construction Management                        | 201 Alice St Guelph ON N1E 3A7                             | 223.9 | 0.00           | 53            |
| <u>25</u>  | GEN  | BP CANADA ENERGY COMPANY                             | 201 ALICE STREET GUELPH ON N1E 3A7                         | 223.9 | 0.00           | 53            |
| <u>25</u>  | GEN  | BP CANADA ENERGY COMPANY                             | 201 ALICE STREET GUELPH ON N1E 3A7                         | 223.9 | 0.00           | 53            |
| <u>26</u>  | SCT  | STEELE BROS (GUELPH-1986) LTD                        | 60 JOHNSTON ST GUELPH ON N1E<br>5T6                        | 243.0 | 0.00           | 54            |
| <u>26</u>  | SCT  | Steele Bros. (Guelph, 1986) Ltd.                     | 60 Johnston St Guelph ON N1E 5T6                           | 243.0 | 0.00           | 54            |
| <u>26</u>  | SCT  | Steele Bros.   | 60 Johnston St Guelph ON N1E 5T6                           | 243.0 | 0.00           | 54            |
| <u>27</u>  | FST  | MAPLE LEAF GAS                                       | 390 YORK RD GUELPH ON N1E 3H4                              | 246.5 | 0.00           | 54            |
| <u>27</u>  | FST  | MAPLE LEAF GAS                                       | 390 YORK RD GUELPH ON N1E 3H4                              | 246.5 | 0.00           | 55            |
| <u>27</u>  | FST  | MAPLE LEAF GAS                                       | 390 YORK RD GUELPH ON N1E<br>3H4                           | 246.5 | 0.00           | 55            |
| <u>27</u>  | FST  | MAPLE LEAF GAS                                       | 390 YORK RD GUELPH ON N1E 3H4                              | 246.5 | 0.00           | 56            |
| <u>27</u>  | FST  | MAPLE LEAF GAS                                       | 390 YORK RD GUELPH ON N1E 3H4                              | 246.5 | 0.00           | 56            |
| <u>27</u>  | PRT  | MAPLE LEAF GAS & FUELS LTD<br>AND QUALITY AUTO GLASS | 390 YORK RD GUELPH ON N1E3H4                               | 246.5 | 0.00           | 57            |
| <u>27</u>  | RST  | MAPLE LEAF GAS & FUELS LTD                           | 390 YORK RD GUELPH ON N1E 3H4                              | 246.5 | 0.00           | 57            |
| <u>28</u>  | EXP  | 1028119 ONTARIO LIMITED                              | 408 YORK RD GUELPH ON N1E<br>3H5                           | 248.1 | 0.00           | 57            |
| <u>28</u>  | EXP  | 1028119 ONTARIO LIMITED                              | 408 YORK RD GUELPH ON N1E<br>3H5                           | 248.1 | 0.00           | 58            |

| Map<br>Key | DB  | Company/Site Name           | Address  | Dis m | Elev<br>Diff m | Page<br>Number |
|------------|-----|-----------------------------|--|-------|----------------|----------------|
| <u>28</u>  | EXP | 1028119 ONTARIO LIMITED     | 408 YORK RD GUELPH ON N1E<br>3H5                       | 248.1 | 0.00           | 58             |
| <u>28</u>  | FST | SHAMLOW SERVICE O/A GAS STN | 408 YORK RD GUELPH ON N1E 3H5                          | 248.1 | 0.00           | 58             |
| <u>28</u>  | FST | SHAMLOW SERVICE O/A GAS STN | 408 YORK RD GUELPH ON N1E 3H5                          | 248.1 | 0.00           | 59             |
| <u>28</u>  | PRT | 1028119 ONTARIO LIMITED     | 408 YORK RD GUELPH ON N1E 3H5                          | 248.1 | 0.00           | 59             |
| <u>28</u>  | PRT | SAMS AUTO SERVICE LTD       | 408 YORK RD GUELPH ON N1E 3H5                          | 248.1 | 0.00           | 59             |
| <u>28</u>  | RST | HILTON GROUP GAS            | 408 YORK RD GUELPH ON N1E 3H5                          | 248.1 | 0.00           | 59             |
| <u>28</u>  | SPL | CANGO PETROLEUMS LTD.       | 408 YORK RD. SERVICE STATION<br>GUELPH CITY ON N1E 3H5 | 248.1 | 0.00           | 59             |
| <u>29</u>  | SCT | LEWIS UPHOLSTERY            | 404 YORK RD GUELPH ON N1E 3H4                          | 248.5 | 0.00           | 60             |

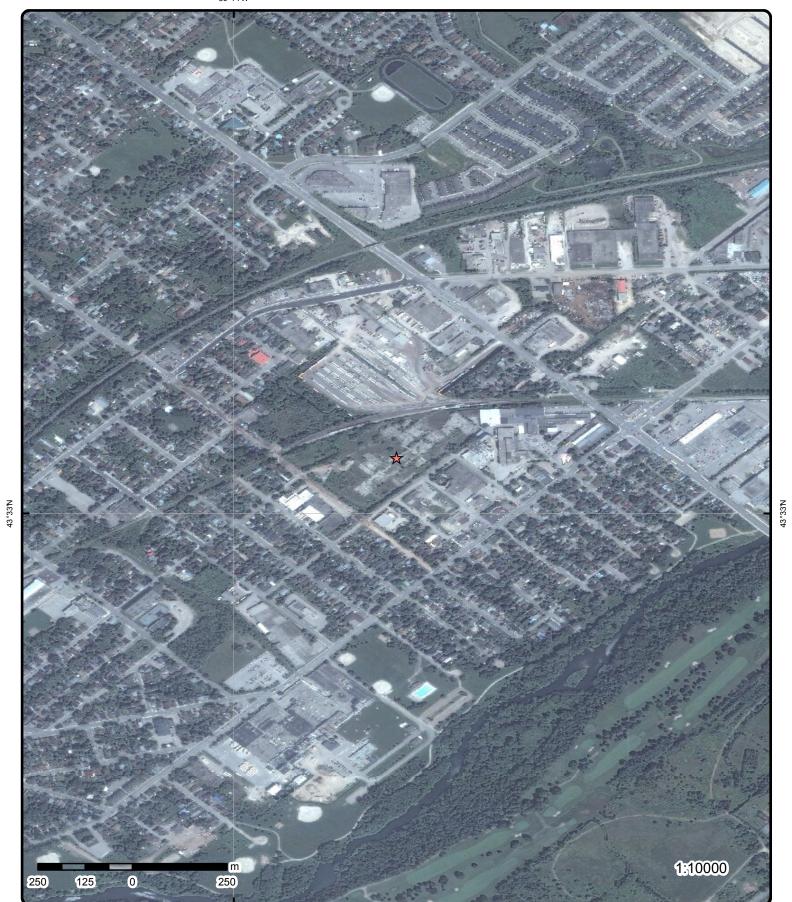


Map Order No: 20131028018

Address: 200 Beverley St, Guelph, ON, N1E3C4



Source: © 2012 DMTI Spatial Inc.



**Aerial** Order No: 20131028018

Address: 200 Beverley St, Guelph, ON, N1E3C4

# Detail Report

| Мар Кеу  | Number of<br>Records | Distance<br>m   | Elevation<br>m         | Site  | DB         |
|--|----------------------|---|------------------------|---|------------|
| 2  | 2 of 15              | 73.1  | 315.0                  | 200 Beverley St<br>Guelph ON  | <u>EHS</u> |
| Order No.:<br>Report Date<br>Report Typ<br>Search Rac<br>Addit. Info | e:<br>lius (km):     | 19991202001<br>12/9/99<br>Complete Repor<br>0.35                      | t                      |   |            |
| 2  | 3 of 15              | 73.1  | 315.0                  | 200 Beverley Street<br>Guelph ON  | <u>EHS</u> |
| Order No.:<br>Report Date<br>Report Typ<br>Search Rac<br>Addit. Info | e:<br>lius (km):     | 20061127027<br>12/1/2006<br>Complete Repor<br>0.5<br>Fire Insur. Maps | t<br>And /or Site Plan | s   |            |
| 2  | 4 of 15              | 73.1  | 315.0                  | INTERNTN'L MALLEABLE IRON CO LTD<br>21-131<br>200 BEVERLY ST.<br>GUELPH ON N1E 3C4  | <u>GEN</u> |
| SIC Code:<br>SIC Descrij<br>Generator i<br>Approval Y                | <b>#</b> :           | 2941<br>IRON FOUNDAF<br>ON0103000<br>92,93,94,95,96,9                 |                        |   |            |
| +  | ode:<br>escription:  |   | T/COATING RES          | IDUES   |            |
| +<br>Waste Co  | scription:           | 146<br>OTHER SPECIF<br>243<br>PCB'S                                   | TED INORGANIC          | S   |            |
| +<br>Waste Code:<br>Waste Description:                               |                      | 251<br>OIL SKIMMINGS  | S & SLUDGES            |   |            |
| 2  | 5 of 15              | 73.1  | 315.0                  | INTERNTN'L MALLEABLE IRON CO.<br>LIMITED<br>200 BEVERLY STREET<br>GUELPH ON N1E 3C4 | <u>GEN</u> |
| SIC Code:<br>SIC Description:  |                      | 2941<br>IRON FOUNDAF  | RIES                   |   |            |

DB Number of Distance Elevation Site Map Key Records m m ON0103000 Generator #: 98 Approval Yrs: --- Details ---Waste Code: 145 PAINT/PIGMENT/COATING RESIDUES Waste Description: Waste Code: 146 Waste Description: OTHER SPECIFIED INORGANICS Waste Code: 243 PCB'S Waste Description: Waste Code: 251 Waste Description: **OIL SKIMMINGS & SLUDGES** 2 6 of 15 315.0 73.1 **GEN** INTERNTN'L MALLEABLE IRON CO LTD 200 BEVERLY ST. **GUELPH ON N1E 3C4** SIC Code: 2941 SIC Description: IRON FOUNDARIES Generator #: ON0103000 Approval Yrs: 89 --- Details ---Waste Code: 145 PAINT/PIGMENT/COATING RESIDUES Waste Description: Waste Code: Waste Description: OTHER SPECIFIED INORGANICS Waste Code: **OIL SKIMMINGS & SLUDGES** Waste Description: 2 7 of 15 73.1 315.0 INTERNTN'L MALLEABLE IRON CO LTD **GEN** 200 BEVERLY ST. P.O. BOX 180 **GUELPH ON N1H 6K1** 2941 SIC Code: **IRON FOUNDARIES** SIC Description: ON0103000 Generator #: Approval Yrs: 86,87,88 --- Details ---Waste Code: 146 Waste Description: OTHER SPECIFIED INORGANICS 2 8 of 15 73.1 315.0 City of Guelph **GEN** 200 Beverley Street **GUELPH ON** SIC Code: 913910 Other Local Municipal and Regional Public Administration SIC Description: Generator #: ON3323094 Approval Yrs: 2009 --- Details ---Waste Code: 146

| Map Key  | Number of<br>Records | Distance<br>m                                     | Elevation<br>m    | Site   | DB         |  |
|--|----------------------|---|-------------------|--|------------|--|
| Waste De   | escription:          | OTHER SPECIFIED INORGANICS                        |                   |  |            |  |
| +<br>Waste Co<br>Waste De                            | ode:<br>escription:  | 243<br>PCBS                                       |                   |  |            |  |
| 2  | 9 of 15              | 73.1  | 315.0             | City of Guelph<br>200 Beverley Street<br>GUELPH ON                     | <u>GEN</u> |  |
| SIC Code:<br>SIC Descrip<br>Generator:<br>Approval Y | #:                   | 913910<br>Other Local Mun<br>ON3323094<br>2011    | icipal and Region | al Public Administration   |            |  |
| Details -<br>Waste Co<br>Waste De<br>+               |                      | 146<br>OTHER SPECIF                               | TED INORGANIC     | S  |            |  |
|  | ode:<br>escription:  | 243<br>PCBS                                       |                   |  |            |  |
| +<br>Waste Co<br>Waste De                            | ode:<br>escription:  | 221<br>LIGHT FUELS                                |                   |  |            |  |
| 2  | 10 of 15             | 73.1  | 315.0             | GUELPH, CITY OF<br>200 BEVERLEY STREET<br>GUELPH ON N1E 3C4            | <u>GEN</u> |  |
| SIC Code:<br>SIC Descrip<br>Generator:<br>Approval Y | #:                   | 8359<br>OTHER GEN. AI<br>ON0349018<br>98,99,00,01 | DMIN.             |  |            |  |
| Details -<br>Waste Co<br>Waste De                    |                      | 251<br>OIL SKIMMINGS                              | S & SLUDGES       |  |            |  |
| 2  | 11 of 15             | 73.1  | 315.0             | City of Guelph Engineering<br>200 Beverley Street<br>GUELPH ON N1E 3C4 | <u>GEN</u> |  |
| SIC Code:<br>SIC Descrip<br>Generator:<br>Approval Y | #:                   | ON3323094<br>As of Apr 2012                       |                   |  |            |  |
| Details<br>Waste Code:<br>Waste Description:<br>+    |                      | 146<br>Other specified i                          | norganic sludges, | slurries or solids   |            |  |
| Waste Code: Waste Description:                       |                      | 221<br>Light fuels                                |                   |  |            |  |
| 2  | 12 of 15             | 73.1  | 315.0             | City of Guelph<br>200 Beverley Street<br>GUELPH ON N1E 3C4             | <u>GEN</u> |  |
| 010 0 1  |                      |   |                   |  |            |  |

| Map Key   | Number of<br>Records | Distance<br>m  | Elevation<br>m       | Site   | DB          |
|---|----------------------|--|----------------------|--|-------------|
| SIC Descrip<br>Generator ‡<br>Approval Y                                      | <b>#</b> :           | ON3323094<br>02,03,04,05,                                    | ,06,07,08            |  |             |
| Details<br>Waste Co<br>Waste De   |                      | 146<br>OTHER SPECI   | FIED INORGANICS      |  |             |
| Waste Co<br>Waste De  | de:<br>scription:    | 243<br>PCB'S   |                      |  |             |
| 2   | 13 of 15             | 73.1   | 315.0                | City of Guelph<br>200 Beverley Street<br>GUELPH ON   | <u>GEN</u>  |
| SIC Code:<br>SIC Descrip<br>Generator ‡<br>Approval Y                         | <b>#</b> :           | 913910<br>Other Local Mu<br>ON3323094<br>2010                | nicipal and Regional | Public Administration  |             |
| +   | de:<br>scription:    |  | FIED INORGANICS      |  |             |
| Waste Co<br>Waste De  | de:<br>scription:    | 221<br>LIGHT FUELS   |                      |  |             |
| +<br>Waste Co<br>Waste De   | de:<br>scription:    | 243<br>PCBS  |                      |  |             |
| 2   | 14 of 15             | 73.1   | 315.0                | INTERNATIONAL MALLEABLE IRON<br>BEVERLY STREET<br>GUELPH ON  | <u>OPCB</u> |
| Year:<br>Site Numbe   | er:                  | 1992<br>20289A044  |                      |  |             |
| 2   | 15 of 15             | 73.1   | 315.0                | INTERNATIONAL MALLEABLE IRON C<br>200 BEVERLEY STREET GUELPH PLANT<br>200 BEVERLY STREET<br>GUELPH CITY ON | <u>SPL</u>  |
| Ref No.:<br>Incident Dt:<br>MOE Repor<br>Contamina<br>Contamina               | ted Dt:              | 70643<br>5/15/1992<br>5/15/1992                              |                      |  |             |
| Incident Summary:<br>Incident Cause:<br>Incident Reason:<br>Nature of Impact: |                      | IMICO-LARGE<br>OTHER CAUSE<br>FIRE/EXPLOSI<br>Human Health ( | E (N.O.S.)<br>ON     | KE TO ATM;REQUEST MOE;LEVEL II VAN AL  | SO ON SITE  |
| Receiving I   |                      | AIR<br>POSSIBLE  |                      |  |             |
| 1   | 1 of 1               | 58.2   | 315.0                |  | <u>wwis</u> |
|   |                      |  |                      | ON   |             |

Map Key Number of Distance Elevation Site DB
Records m m

**Well Id:** 7043094 **Lot:** 

Concession: Concession Name:

County:WELLINGTONMunicipality:GUELPHEasting Nad83:562245Northing Nad83:4822272

Zone: 17 Utm Reliability: margin of error: 10 - 30 m
Primary Water Use: Construction Date: 13-MAR-07

Primary Water Use:Construction Date:13-MARSec. Water Use:Well Depth:5 ft

Pump Rate: Static Water Level:
Flow Rate: Clear/Cloudy:

Specific Capacity: Final Well Status: Observation Wells

Construction Diamond Flowing (y/n):

Method:
Elevation (m): 315.07 Elevation

Depth to Bedrock: 16 Overburden/Bedroc Bedrock

. **k**:

Water Type: Casing Material: PLASTIC

--- Details ---

Thickness:5 ftOriginal Depth:5 ftMaterial Colour:BROWNMaterial:GRAVEL

material Colour.

Thickness: 25 ft Original Depth: 30 ft
Material Colour: BROWN Material: ROCK

2 1 of 15 73.1 315.0 INTERNATIONAL MALLEABLE IRON C CONV

ON

Reliability:

File No.:

Crown Brief No.: 94-0247-0018
Ministry District: GUELPH

Region: WEST CENTRAL REGION

**Description:** FAILED TO COMPLY WITH A DIRECTORS ORDER TO REMEDIATE PROPERTY DUE TO

ILLEGAL ACTIVITIES AND ENVIRONMENTAL CONTAMINATION INVOLVING PCB WASTE

--- Details ---

 Date Charged:
 1/21/97

 Fine:
 \$4,000.00

 Act/Regulation/Section:
 EPA- -186(2)

Charge Disposition: SUSPENDED SENTENCE

+

 Date Charged:
 1/21/97

 Fine:
 \$4,000.00

 Act/Regulation/Section:
 EPA- -186(2)

Charge Disposition: SUSPENDED SENTENCE

·

 Date Charged:
 1/21/97

 Fine:
 \$4,000.00

 Act/Regulation/Section:
 EPA- -186(2)

Charge Disposition: SUSPENDED SENTENCE

+

 Date Charged:
 1/21/97

 Fine:
 \$4,000.00

 Act/Regulation/Section:
 EPA- -186(2)

Charge Disposition: SUSPENDED SENTENCE

+

Date Charged: 1/21/97

| Мар Кеу  | Number of<br>Records                      | Distance<br>m                                    | Elevation<br>m     | Site   | DB                   |
|--|---|--|--------------------|--|----------------------|
| Charge D   | llation/Section:<br>Disposition:          | \$4,000.00<br>EPA186(2)<br>SUSPENDED             | SENTENCE           |  |                      |
|  | rged:<br>llation/Section:<br>Disposition: | 1/21/97<br>\$10,000.00<br>EPA186(2)<br>SUSPENDED | SENTENCE           |  |                      |
| 3  | 1 of 4                                    | 118.2  | 315.0              | ABS FRICTION<br>10 Kingsmill Avenue<br>Guelph ON N1E 5V9       | <u>NPRI</u>          |
| NPRI #:<br>Year:<br>Longitude:<br>Latitude:                |   | 7671<br>2005<br>-80.228<br>43.5513               |                    |  |                      |
| Details -<br>Air:<br>Water:<br>Land:                       |   | 0.57   |                    |  |                      |
| Units:   | ces Released:                             | tonnes<br>PM10 - Particu                         | ılate Matter <= 10 | Microns  |                      |
| 3  | 2 of 4                                    | 118.2  | 315.0              | ABS Friction Corp.<br>10 Kingsmill Avenue<br>Guelph ON N1E 5V9 | <u>NPRI</u>          |
| NPRI #:<br>Year:<br>Longitude:<br>Latitude:                |   | 7671<br>2002                                     |                    |  |                      |
| Details -<br>Air:<br>Water:<br>Land:<br>Units:<br>Substand | <br>ces Released:                         | 0.023<br>0<br>0<br>tonnes<br>Copper (and it:     | s compounds)       |  |                      |
| + Air: Water: Land: Units: Substance                       | ces Released:                             | 3.369<br>0<br>0<br>tonnes<br>PM10 - Particu      | ılate Matter <= 10 | Microns  |                      |
| +<br>Air:<br>Water:<br>Land:<br>Units:                     | ces Released:                             | 1.688<br>0<br>0<br>tonnes                        | ulate Matter <= 2. |  |                      |
| 3  | 3 of 4                                    | 118.2  | 315.0              | ABS Friction Corp.<br>10 Kingsmill Avenue<br>Guelph ON N1E 5V9 | <u>NPRI</u>          |
| NPRI #:<br>Year:   |   | 7671<br>2003                                     |                    |  |                      |
| 10   | erisinfo.com                              | Ecol og ERIS I                                   | 1 +4               |  | Order #: 20131028018 |

| Map Key                 | Number of<br>Records | Distance<br>m     | Elevation<br>m      | Site   | DB          |
|-------------------------|----------------------|-------------------|---------------------|--|-------------|
| Longitude:<br>Latitude: |                      |                   |                     |  |             |
| Details -               |                      |                   |                     |  |             |
| Air:                    |                      | 4.73              |                     |  |             |
| Water:                  |                      | 0.00              |                     |  |             |
| Land:                   |                      | 0.00              |                     |  |             |
| Units:                  | 5.4                  | tonnes            |                     |  |             |
| Substanc<br>+           | es Released:         | PM10 - Particu    | late Matter <= 10   | Microns  |             |
| Air:                    |                      | 2.37              |                     |  |             |
| Water:                  |                      | 0.00              |                     |  |             |
| Land:                   |                      | 0.00              |                     |  |             |
| Units:                  |                      | tonnes            |                     |  |             |
| Substanc                | es Released:         | PM2.5 - Particu   | ılate Matter <= 2.5 | Microns  |             |
| 3                       | 4 of 4               | 118.2             | 315.0               | ABS FRICTION<br>10 Kingsmill Avenue<br>Guelph ON N1E 5V9       | <u>NPRI</u> |
| NDDI #.                 |                      | 7671              |                     |  |             |
| NPRI #:                 |                      | 7671<br>2004      |                     |  |             |
| Year:<br>Longitude:     |                      | -80.228           |                     |  |             |
| Latitude:               |                      | 43.5513           |                     |  |             |
| Details -               |                      |                   |                     |  |             |
| Air:<br>Water:<br>Land: |                      | 2.18              |                     |  |             |
| Units:                  |                      | tonnes            |                     |  |             |
|                         | es Released:         | PM10 - Particu    | late Matter <= 10   | Microns  |             |
| +<br>Air:<br>Water:     |                      | 1.10              |                     |  |             |
| Land:                   |                      |                   |                     |  |             |
| Units:                  | es Released:         | tonnes            | ılate Matter <= 2.5 | Microns  |             |
| Substanc                | es Releaseu:         | PIVIZ.5 - Partict | nate Matter <= 2.5  | OWNCIONS   |             |
| 4                       | 1 of 16              | 139.1             | 315.0               | LINREAD CANADA LTD.<br>24 HAYES AVE.<br>GUELPH CITY ON N1E 5V5 | <u>CA</u>   |
| Certificate             | <b>#</b> •           | 8-2032-87-        |                     |  |             |
| Application             |                      | 87                |                     |  |             |
| Issue Date:             |                      | 2/17/1987         |                     |  |             |
| Approval T              |                      | Industrial air    |                     |  |             |
| Status:                 | ypc.                 | Cancelled         |                     |  |             |
| Application             | Type:                | Carloonoa         |                     |  |             |
| Client Nam              |                      |                   |                     |  |             |
| Client Addı             |                      |                   |                     |  |             |
| Client City:            |                      |                   |                     |  |             |
| Client Post             |                      |                   |                     |  |             |
| Project Des             |                      | SEE #8-2022-8     | 37                  |  |             |
| Contamina               |                      |                   |                     |  |             |
| Emission C              |                      |                   |                     |  |             |
| 4                       | 2 of 16              | 139.1             | 315.0               | LINREAD CANADA LTD.<br>24 HAYES AVE.                           | <u>CA</u>   |

DB Number of Distance Elevation Site Map Key Records m m **GUELPH CITY ON N1E 5V5** Certificate #: 8-2022-87-Application Year: 87 Issue Date: 10/21/1988 Approval Type: Industrial air Cancelled Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: SOUND ENCLOSURE FOR OIL COOLING UNIT Project Description: Contaminants: **Emission Control:** 3 of 16 315.0 24 Hayes Avenue 4 139.1 **EHS Guelph ON N1E 5V5** 20090610036 Order No.: Report Date: 6/16/2009 Report Type: Standard Report Search Radius (km): 0.25 Fire Insur. Maps and/or Sire Plans; Title Searches; Aerial Photos; City Directory; Topographic Maps Addit. Info Ordered: 4 of 16 139.1 315.0 **702920 ONTARIO GEN** 4 INC./GATTO/VANPOUCKE 24 HAYES AVENUE UNIT #1 **GUELPH ON N1E 5V5** SIC Code: 7215 SIC Description: **HOLDING COMPANIES** Generator #: ON1778300 Approval Yrs: 93,94,95,96,97,98 --- Details ---Waste Code: 148 Waste Description: INORGANIC LABORATORY CHEMICALS Waste Code: Waste Description: WASTE OILS & LUBRICANTS Waste Code: 263 Waste Description: ORGANIC LABORATORY CHEMICALS 5 of 16 139.1 315.0 DALTEC INDUSTRIES LTD. **GEN** 4 24 HAYES AVENUE

**GUELPH ON N1E 5V5** 

SIC Code: 3199

SIC Description: OTHER MACHINERY

Generator #: ON1634801

Approval Yrs: 95,96,97,98,99,00,01,02,03,04,05,06

--- Details ---

Waste Code: 145

PAINT/PIGMENT/COATING RESIDUES Waste Description:

| Мар Кеу  | Number of<br>Records | Distance<br>m                                       | Elevation<br>m | Site   |        | DB         |
|--|----------------------|---|----------------|--|--------|------------|
| +<br>Waste Co<br>Waste De                          | ode:<br>escription:  | 211<br>AROMATIC SC                                  | DLVENTS        |  |        |            |
| 4  | 6 of 16              | 139.1   | 315.0          | LINREAD CANADA LTD<br>24 HAYES AVE. P.O. BOX 540<br>GUELPH ON N1E 5V5                    | 24-021 | <u>GEN</u> |
| SIC Code:<br>SIC Descri<br>Generator<br>Approval Y | #:                   | 3053<br>INDUSTRIAL F<br>ON0114600<br>92,93,94,95,96 |                |  |        |            |
| Details -<br>Waste Co<br>Waste De                  |                      | 253<br>EMULSIFIED C                                 | DILS           |  |        |            |
| 4  | 7 of 16              | 139.1   | 315.0          | 702920 ONTARIO<br>INC./GATTO/VANPOUCKE<br>24 HAYES AVENUE, UNIT #1_<br>GUELPH ON N1E 5V5 |        | <u>GEN</u> |
| SIC Code:<br>SIC Descri<br>Generator<br>Approval Y | #:                   | ON1778300<br>04                                     |                |  |        |            |
| 4  | 8 of 16              | 139.1   | 315.0          | 702920 ONTARIO<br>INC./GATTO/VANPOUCKE<br>24 HAYES AVENUE, UNIT #1_<br>GUELPH ON N1E 5V5 |        | GEN        |
| SIC Code:<br>SIC Descri<br>Generator<br>Approval Y | #:                   | 7215<br>HOLDING CON<br>ON1778300<br>99,00,01,03     | MPANIES        |  |        |            |
| Details -<br>Waste Co<br>Waste De<br>+             |                      | 148<br>INORGANIC LA                                 | ABORATORY CH   | EMICALS  |        |            |
|  | ode:<br>escription:  | 252<br>WASTE OILS 8                                 | LUBRICANTS     |  |        |            |
| +<br>Waste Co<br>Waste De                          | ode:<br>escription:  | 263<br>ORGANIC LAB                                  | ORATORY CHEM   | MICALS   |        |            |
| 4  | 9 of 16              | 139.1   | 315.0          | 702920 ONTARIO<br>INC./GATTO/VANPOUCKE<br>24 HAYES AVENUE, UNIT #1_<br>GUELPH ON N1E 5V5 |        | GEN        |
| SIC Code:<br>SIC Descri<br>Generator<br>Approval Y | #:                   | ON1778300<br>02                                     |                |  |        |            |

| Мар Кеу  | Number of<br>Records | Distance<br>m                                       | Elevation<br>m | Site  | DB         |
|--|----------------------|---|----------------|---|------------|
| 4  | 10 of 16             | 139.1   | 315.0          | JET (OUT OF BUS)<br>24 HAYES AVENUE UNIT #2<br>GUELPH ON N1E 5V5      | <u>GEN</u> |
| SIC Code:<br>SIC Descri<br>Generator<br>Approval \ | #:                   | 3062<br>METAL DIES,<br>ON1749500<br>93,94,95,96,97  |                |   |            |
| Details -<br>Waste Co<br>Waste De                  |                      | 232<br>POLYMERIC I                                  | RESINS         |   |            |
| Waste Co   | ode:<br>escription:  | 253<br>EMULSIFIED                                   | OILS           |   |            |
| 4  | 11 of 16             | 139.1   | 315.0          | LINREAD CANADA LTD<br>24 HAYES AVE. P.O. BOX 540<br>GUELPH ON N1E 5V5 | <u>GEN</u> |
| SIC Code:<br>SIC Descri<br>Generator<br>Approval   | #:                   | 3053<br>INDUSTRIAL I<br>ON0114600<br>86,87,88,89,90 |                |   |            |
| Details -<br>Waste Co<br>Waste De                  |                      | 253<br>EMULSIFIED                                   | OILS           |   |            |
| 4  | 12 of 16             | 139.1   | 315.0          | INDUSTRIAL PROCESS EQUIPMENT<br>24 HAYES AVE<br>GUELPH ON N1E 5V5     | <u>SCT</u> |
| Establishe<br>Plant Size<br>Employme               | (ft²):               | 1991<br>2500<br>20                                  |                |   |            |
| Details -<br>SIC/NAIC<br>Descripti<br>+            | S Code:              | 3556<br>FOOD PRODU                                  | JCTS MACHINERY |   |            |
| SIC/NAIC<br>Descripti                              |                      | 3567<br>INDUSTRIAL PROCESS FURNACE                  |                | CES AND OVENS   |            |
| 4  | 13 of 16             | 139.1   | 315.0          | KERSTING INDUSTRIES LTD.<br>24 HAYES AVE UNIT 1<br>GUELPH ON N1E 5V5  | <u>SCT</u> |
| Establishe<br>Plant Size<br>Employme               | (ft²):               | 1970<br>5000<br>3                                   |                |   |            |
| Details<br>SIC/NAICS Code:<br>Description:         |                      | 3599<br>INDUSTRIAL /<br>CLASSIFIED                  | AND COMMERCIAI | L MACHINERY AND EQUIPMENT, NOT ELSE                                   | WHERE      |

| Мар Кеу  | Number<br>Records                              |   | Elevation<br>m      | Site  |  | DB          |
|--|--|---|---------------------|---|--|-------------|
| 4  | 14 of 16                                       | 139.1                                     | 315.0               | DALTEC INDUSTRIES<br>24 HAYES AVE<br>GUELPH ON N1E 5VS  |  | <u>SCT</u>  |
| Established<br>Plant Size (<br>Employme  | (ft²):   | 1984<br>20000<br>18                       |                     |   |  |             |
| Details -<br>SIC/NAIC<br>Descripti   | S Code:  | 3564<br>INDUSTRIA                         | AL AND COMMERCIA    | AL FANS AND BLOWERS A   | AND AIR PURIFICATIO  | N EQUIPMENT |
| 4  | 15 of 16                                       | 139.1                                     | 315.0               | Daltec Industries Ltd.<br>24 Hayes Ave<br>Guelph ON N1E 5V5   |  | <u>SCT</u>  |
| Established<br>Plant Size (<br>Employmed   | (ft²):   | 1984<br>20000<br>30                       |                     |   |  |             |
| Details -<br>SIC/NAIC<br>Descripti   | S Code:  | 333413<br>Industrial ar                   | nd Commercial Fan a | nd Blower and Air Purificati  | on Equipment Manufac   | turing      |
| 4  | 16 of 16                                       | 139.1                                     | 315.0               | ALLEN SIMPSON MA<br>24 HAYES AVE<br>GUELPH ON N1E 5V5   |  | <u>SCT</u>  |
| Established<br>Plant Size (<br>Employme  | (ft²):   | 1975<br>14000<br>20                       |                     |   |  |             |
| Details -<br>SIC/NAIC<br>Descripti   | S Code:  | 3423<br>HAND & EI                         | OGE TOOLS, EXCEP    | T MACHINE TOOLS & HAI   | ND SAWS  |             |
| +<br>SIC/NAIC<br>Description   | _  | 3499<br>FABRICATI                         | ED METAL PRODUC     | TS, N.E.C.  |  |             |
| 5  | 1 of 1   | 157.6                                     | 315.0               | ON  |  | <u>wwis</u> |
| Well Id:<br>Concession<br>County:<br>Easting Na<br>Zone:<br>Primary Wa<br>Sec. Water<br>Pump Rate<br>Flow Rate:<br>Specific Ca<br>Construction | nd83:<br>ater Use:<br>· Use:<br>o:<br>apacity: | 7167947  WELLINGTON 562094 17  Monitoring |                     | Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): | GUELPH 4822273 margin of error : 10 - : 20-JUN-11  Abandoned-Other | 30 m        |
| Method:<br>Elevation (l<br>Depth to Be   |  |   |                     | Elevation<br>Reliability:<br>Overburden/Bedroc  |  |             |
| Water Type   |  |   |                     | k: Casing Material:   |  |             |

DB Map Key Number of Distance Elevation Site Records m m --- Details ---Thickness: Original Depth: m m Material Colour: Material: 6 1 of 4 172.6 315.0 **GEORGE'S FURNITURE & CABINET** SCT 147 STEVENSON ST S **GUELPH ON N1E 5N6** Established: 1962 5000 Plant Size (ft2): Employment: 2 --- Details ---SIC/NAICS Code: 2431 **MILLWORK** Description: SIC/NAICS Code: 2434 WOOD KITCHEN CABINETS Description: SIC/NAICS Code: Description: WOOD PRODUCTS, NOT ELSEWHERE CLASSIFIED SIC/NAICS Code: Description: WOOD HOUSEHOLD FURNITURE, EXCEPT UPHOLSTERED 6 2 of 4 172.6 315.0 **GEORGE'S GALERIA** <u>SCT</u> 147 Stevenson St S Guelph ON N1E 5N6 Established: 1962 Plant Size (ft2): 5000 Employment: 2 --- Details ---SIC/NAICS Code: 321911 Description: Wood Window and Door Manufacturing SIC/NAICS Code: 321919 Other Millwork Description: SIC/NAICS Code: 337110 Description: Wood Kitchen Cabinet and Counter Top Manufacturing SIC/NAICS Code: 337123 Description: Other Wood Household Furniture Manufacturing SIC/NAICS Code: Description: All Other Miscellaneous Manufacturing 6 3 of 4 315.0 Giorgio's Galeria <u>SCT</u> 172.6 147 Stevenson St S Guelph ON N1E 5N6 Established: 01-NOV-62 Plant Size (ft2): 5000 Employment:

DB Number of Distance Elevation Site Map Key Records m m --- Details ---SIC/NAICS Code: 712111 Description: Non-Commercial Art Museums and Galleries 4 of 4 315.0 George's Furniture SCT 6 172.6 147 Stevenson St S **Guelph ON N1E 5N6** Established: 01-SEP-62 Plant Size (ft2): 5000 Employment: --- Details ---SIC/NAICS Code: 321919 Description: Other Millwork SIC/NAICS Code: 337110 Description: Wood Kitchen Cabinet and Counter Top Manufacturing SIC/NAICS Code: 337123 Description: Other Wood Household Furniture Manufacturing 7 1 of 1 174.5 315.0 CLEAR CHOICE WINDOW MFG. SCT 145 STEVENSON ST S **GUELPH ON N1E 5N6** 1990 Established: Plant Size (ft2): 1600 Employment: 4 --- Details ---SIC/NAICS Code: 2431 **MILLWORK** Description: SIC/NAICS Code: 3089 Description: PLASTICS PRODUCTS, NOT ELSEWHERE CLASSIFIED SIC/NAICS Code: 3231 Description: GLASS PRODUCTS, MADE OF PURCHASED GLASS SIC/NAICS Code: 321911 Description: Wood Window and Door Manufacturing SIC/NAICS Code: Description: All Other Plastic Product Manufacturing SIC/NAICS Code: 327215 Description: Glass Product Manufacturing from Purchased Glass SIC/NAICS Code: 332321 Description: Metal Window and Door Manufacturing 8 315.0 **WWIS** 1 of 4 175.3 ON 7174598 Well Id: Lot: Concession: **Concession Name:** County: WELLINGTON Municipality: **GUELPH** Easting Nad83: 562074 Northing Nad83: 4822275

Number of Distance Elevation Site DB Map Key Records m m margin of error: 30 m - 100 m Zone: 17 Utm Reliability: Primary Water Use: Construction Date: 27-OCT-11 Sec. Water Use: Well Depth: Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Construction Flowing (y/n): Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Overburden/Bedroc Casing Material: Water Type: --- Details ---Thickness: m Original Depth: m Material: Material Colour: 8 2 of 4 175.3 315.0 **WWIS** ON Well Id: 7174597 Lot: Concession: **Concession Name:** WELLINGTON County: Municipality: **GUELPH** Easting Nad83: Northing Nad83: 4822275 562074 margin of error: 30 m - 100 m Zone: 17 Utm Reliability: Primary Water Use: Not Used Construction Date: 20-OCT-11 Sec. Water Use: Well Depth: Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Abandoned-Other Construction Flowing (y/n): Method: Elevation (m): Elevation Reliability: Overburden/Bedroc Depth to Bedrock: k: **PLASTIC** Water Type: Casing Material: --- Details ---Thickness: Original Depth: m m Material Colour: Material: 8 3 of 4 175.3 315.0 **WWIS** ON Well Id: 7174596 I of: Concession: **Concession Name:** WELLINGTON Municipality: **GUELPH** County: Easting Nad83: 562074 Northing Nad83: 4822275 margin of error: 30 m - 100 m Zone: 17 Utm Reliability: Test Hole **Primary Water Use:** Construction Date: 26-OCT-11 Sec. Water Use: Monitoring Well Depth: 4.57 m Pump Rate: Static Water Level: Flow Rate: Clear/Cloudv: Specific Capacity: Final Well Status: Observation Wells Construction Air Precussion Flowing (y/n): Method:

DB Number of Distance Elevation Site Map Key Records m m Elevation (m): Elevation Reliability: Depth to Bedrock: Overburden/Bedroc Water Type: Casing Material: PLASTIC --- Details ---Thickness: .31 m Original Depth: .31 m **GREY GRAVEL** Material Colour: Material: 1.21 m Thickness: .9 m Original Depth: Material Colour: Material: Thickness: 3.36 m Original Depth: 4.57 m Material Colour: Material: 8 4 of 4 175.3 315.0 **WWIS** ON 7174594 Well Id: Lot: **Concession Name:** Concession: WELLINGTON County: Municipality: **GUELPH** Northing Nad83: Easting Nad83: 562075 4822275 Zone: 17 Utm Reliability: margin of error: 30 m - 100 m Primary Water Use: Test Hole Construction Date: 26-OCT-11 Sec. Water Use: Monitoring Well Depth: 4.57 m Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy: Final Well Status: **Observation Wells** Specific Capacity: Air Precussion Construction Flowing (y/n): Method: Elevation Elevation (m): Reliability: Overburden/Bedroc Depth to Bedrock: Water Type: Casing Material: **PLASTIC** --- Details ---Thickness: .31 m Original Depth: Material Colour: **BROWN** Material: TOPSOIL, STONES, SOFT Thickness: 1.67 m Original Depth: 1.98 m **BROWN** STONES, SAND, LOOSE Material Colour: Material: Thickness: 2.59 m Original Depth: 4.57 m Material Colour: **BROWN** Material: SANDSTONE, , HARD 315.0 9 1 of 9 178.5 Insitu Contractors Inc. **EBR** Guelph ON 2008 Year: EBR Registry No.: 010-2469 8959-798SJQ Ministry Ref. No.: Type: Instrument Decision Instrument Type: (OWRA s. 53(1)) - Approval for sewage works

Site DB Map Key Number of Distance Elevation Records m January 03, 2008 Proposal Date: CITY OF GUELPH Location: Proponent Address: 150 Stevenson Street South Guelph Ontario Canada N1E 5N7 9 2 of 9 178.5 315.0 Insitu Contractors Inc. <u>EBR</u> Guelph ON N1E 5N7 Year: 2009 010-5850 EBR Registry No.: Ministry Ref. No.: 2213-7NWR99 Instrument Proposal Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air) Instrument Type: Proposal Date: 2/9/2009 Mobile Facility Guelph, County of Wellington, N1E 5N7 Location: 150 Stevenson Street South Guelph Ontario Canada N1E 5N7 **Proponent Address:** 9 3 of 9 178.5 315.0 Insitu Contractors Inc. **EBR** Guelph ON N1E 5N7 Year: 2008 EBR Registry No.: 010-4652 Ministry Ref. No.: 2536-7HAGYQ Type: Instrument Proposal Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air) September 16, 2008 Proposal Date: Mobile Facility Guelph County of Wellington N1E 5N7 Location: 150 Stevenson Street South Guelph Ontario Canada N1E 5N7 Proponent Address: 4 of 9 178.5 315.0 **GEN** 9 Insitu Contractors Inc. 150 Stevenson St S Guelph ON N1E 5N7 SIC Code: 532410 SIC Description: Construction Transportation Mining and Forestry Machinery and Equipment Rental and Leasing Generator #: ON6338475 2009 Approval Yrs: --- Details ---Waste Code: 251 Waste Description: **OIL SKIMMINGS & SLUDGES** 252 Waste Code: Waste Description: WASTE OILS & LUBRICANTS 9 5 of 9 178.5 315.0 Insitu Contractors Inc. **GEN** 150 Stevenson St S Guelph ON N1E 5N7 SIC Code: 532410 SIC Description: Construction Transportation Mining and Forestry Machinery and Equipment Rental and Leasing Generator #: ON6338475 Approval Yrs: 2010 --- Details ---

| Мар Кеу   | Number of<br>Records | Distance<br>m                                 | Elevation<br>m       | Site   | DB                    |
|---|----------------------|---|----------------------|--|-----------------------|
| Waste Co<br>Waste De                                  | ode:<br>escription:  | 252<br>WASTE OILS                             | & LUBRICANTS         |  |                       |
| Waste Co<br>Waste De                                  | ode:<br>escription:  | 251<br>OIL SKIMMING                           | GS & SLUDGES         |  |                       |
| 9   | 6 of 9               | 178.5   | 315.0                | Insitu Contractors Inc.<br>150 Stevenson St S<br>Guelph ON N1E 5N7 | <u>GEN</u>            |
| SIC Code:<br>SIC Descrip                              | otion:               |   |                      |  |                       |
| Generator :<br>Approval Y                             | #:                   | ON6338475<br>02,03,04,05                      | 5,06,07,08           |  |                       |
|   |                      | 251<br>OIL SKIMMING                           | GS & SLUDGES         |  |                       |
| +<br>Waste Co<br>Waste De                             | ode:<br>escription:  | 252<br>WASTE OILS                             | & LUBRICANTS         |  |                       |
| 9   | 7 of 9               | 178.5   | 315.0                | Insitu Contractors Inc.<br>150 Stevenson St S<br>Guelph ON N1E 5N7 | <u>GEN</u>            |
| SIC Code:<br>SIC Descrip<br>Generator :<br>Approval Y | #:                   | ON6338475<br>As of Apr 2012                   |                      |  |                       |
|   |                      | 251<br>Waste oils/slud                        | dges (petroleum bas  | sed)   |                       |
| +<br>Waste Co<br>Waste De                             | ode:<br>escription:  | 252<br>Waste crankca                          | se oils and lubricar | ts   |                       |
| 9   | 8 of 9               | 178.5   | 315.0                | Insitu Contractors Inc.<br>150 Stevenson St S<br>Guelph ON N1E 5N7 | <u>GEN</u>            |
| SIC Code:<br>SIC Descrip<br>Generator :<br>Approval Y | #:                   | 532410<br>Construction T<br>ON6338475<br>2011 | ransportation Minin  | g and Forestry Machinery and Equipmer                              | nt Rental and Leasing |
|   |                      | 252<br>WASTE OILS                             | & LUBRICANTS         |  |                       |
| +<br>Waste Co<br>Waste De                             | ode:<br>escription:  | 251<br>OIL SKIMMING                           | GS & SLUDGES         |  |                       |
| 9   | 9 of 9               | 178.5   | 315.0                | Insitu Contractors Inc.<br>150 Stevenson St S<br>Guelph ON N1E 5N7 | <u>SCT</u>            |

DB Number of Distance Elevation Site Map Key Records m m Established: 01-JUN-94 Plant Size (ft2): Employment: --- Details ---562910 SIC/NAICS Code: Description: Remediation Services SIC/NAICS Code: 333990 Description: All Other General-Purpose Machinery Manufacturing SIC/NAICS Code: Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors Choice Enterprises & Transportation 1 of 7 178.9 315.0 10 <u>CA</u> Services Inc. 143 Stevenson St S Guelph ON N1E 5N6 Certificate #: 8373-8AKJDU Application Year: 2010 10/29/2010 Issue Date: Waste Management Systems Approval Type: Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: **Emission Control:** 2 of 7 178.9 315.0 10 Choice Enterprises + Transportation **GEN** Services Inc. 143 Stevenson St. South Guelph ON N1E 5N6 SIC Code: 238990 SIC Description: All Other Specialty Trade Contractors Generator #: ON2188243 Approval Yrs: 2011 --- Details ---253 Waste Code: **EMULSIFIED OILS** Waste Description: 10 3 of 7 178.9 315.0 Choice Enterprises + Transportation **GEN** Services Inc. 143 Stevenson St. South Guelph ON N1E 5N6 SIC Code: SIC Description: Generator #: ON2188243 Approval Yrs: As of Apr 2012 --- Details ---

| Map Key   | Number of<br>Records | Distance<br>m                                  | Elevation<br>m      | Site   | DB         |
|---|----------------------|--|---------------------|--|------------|
| Waste Co<br>Waste De  | ode:<br>escription:  | 253<br>Emulsified oils                         |                     |  |            |
| 10  | 4 of 7               | 178.9  | 315.0               | Choice Enterprises + Transportation<br>Services Inc.<br>143 Stevenson St. South<br>Guelph ON         | <u>GEN</u> |
| SIC Code:<br>SIC Descrip<br>Generator:<br>Approval Y  | #:                   | ON2188243<br>03,04,05,06                       | ,07,08              |  |            |
| Details -<br>Waste Co<br>Waste De   |                      | 253<br>EMULSIFIED C                            | DILS                |  |            |
| 10  | 5 of 7               | 178.9  | 315.0               | Choice Enterprises + Transportation<br>Services Inc.<br>143 Stevenson St. South<br>Guelph ON N1E 5N6 | <u>GEN</u> |
| SIC Code:   | ntion                | 123456   |                     |  |            |
| SIC Descrip<br>Generator :<br>Approval Y  | #:                   | ON2188243<br>2009                              |                     |  |            |
| Details -<br>Waste Co<br>Waste De   |                      | 253<br>EMULSIFIED C                            | DILS                |  |            |
| 10  | 6 of 7               | 178.9  | 315.0               | Choice Enterprises + Transportation<br>Services Inc.<br>143 Stevenson St. South<br>Guelph ON N1E 5N6 | <u>GEN</u> |
| SIC Code:<br>SIC Descrip<br>Generator:<br>Approval Y  | #:                   | 238990<br>All Other Speci<br>ON2188243<br>2010 | alty Trade Contrac  | etors  |            |
| Details -<br>Waste Co<br>Waste De   |                      | 253<br>EMULSIFIED C                            | DILS                |  |            |
| 10  | 7 of 7               | 178.9  | 315.0               | Choice Enterprises Inc.<br>143 Stevenson St S<br>Guelph ON N1E 5N6                                   | <u>SCT</u> |
| Established<br>Plant Size (<br>Employme   | (ft²):               | 01-JAN-98                                      |                     |  |            |
| Details -<br>SIC/NAIC<br>Descripti  | S Code:              | 332810<br>Coating, Engra                       | ving, Heat Treating | g and Allied Activities  |            |
| + SIC/NAICS Code: 332810 Description: Coating, Engraving, Heat Treating and Allied Activities |                      |  |                     |  |            |

| Мар Кеу  | Number of<br>Records                                 | Distance<br>m  | Elevation<br>m | Site   | DB         |
|--|--|--|----------------|--|------------|
| 11   | 1 of 5   | 179.6  | 315.0          | TALLON METAL TECHNOLOGIES INC<br>LOT 1<br>STEVENSON ST./BEVERLY ST.<br>GUELPH CITY ON                  | <u>CA</u>  |
| Certificate<br>Application<br>Issue Date<br>Approval T<br>Status:<br>Application<br>Client Nam<br>Client Add | n Year:<br>:<br>:<br>ype:<br>n Type:<br>ne:<br>ress: | 8-2046-92-<br>92<br>7/29/1992<br>Industrial air<br>Cancelled |                |  |            |
| Client City:<br>Client Post<br>Project Des<br>Contamina<br>Emission (  | tal Code:<br>scription:<br>nts:                      | OPERATE SO   | ILS TREATMENT  | DEMO PLANT   |            |
| 11   | 2 of 5   | 179.6  | 315.0          | GUELPH HYDRO 18-344<br>BEVERLEY ST. AT STEVENSON ST.<br>SOUTH C/O 104 DAWSON ROAD<br>GUELPH ON N1H 1A7 | <u>GEN</u> |
| SIC Code:<br>SIC Descri <sub>l</sub><br>Generator:<br>Approval Y   | #:   | 4911<br>ELECT. POWE<br>ON0558303<br>94,95,96                 | ER SYS.        |  |            |
|  |  | 122<br>ALKALINE WA   | STES - OTHER M | ETALS  |            |
| +<br>Waste Co<br>Waste De  | ode:<br>escription:                                  | 251<br>OIL SKIMMING  | GS & SLUDGES   |  |            |
| 11   | 3 of 5   | 179.6  | 315.0          | GUELPH HYDRO<br>BEVERLEY ST. AT STEVENSON ST.<br>SOUTH<br>GUELPH ON N1H 1A7                            | <u>GEN</u> |
| SIC Code:<br>SIC Descri<br>Generator<br>Approval Y   | #:   | 4911<br>ELECT. POWE<br>ON0558303<br>92,93,97,98              | ER SYS.        |  |            |
|  |  | 122<br>ALKALINE W <i>A</i>                                   | STES - OTHER M | ETALS  |            |
| +<br>Waste Co<br>Waste De  | ode:<br>escription:                                  | 251<br>OIL SKIMMING  | GS & SLUDGES   |  |            |
| 11   | 4 of 5   | 179.6  | 315.0          | GUELPH HYDRO<br>BEVERLEY STREET AT STEVENSON<br>STREET SOUTH   | <u>GEN</u> |

Map Key Number of Distance Elevation Site DB
Records m m

GUELPH ON

**SIC Code:** 4911

**SIC Description:** ELECT. POWER SYS.

**Generator #:** ON0558303 **Approval Yrs:** 99,00,01,03,04

--- Details ---

Waste Code: 122

Waste Description: ALKALINE WASTES - OTHER METALS

+

Waste Code: 251

Waste Description: OIL SKIMMINGS & SLUDGES

11 5 of 5 179.6 315.0 GUELPH HYDRO GEN

BEVERLEY ST. AT STEVENSON ST. SOUTH C/O 104 DAWSON ROAD

**GUELPH ON N1H 1A7** 

**SIC Code:** 4911

**SIC Description:** ELECT. POWER SYS.

 Generator #:
 ON0558303

 Approval Yrs:
 89,90

--- Details ---

Waste Code: 122

Waste Description: ALKALINE WASTES - OTHER METALS

+

Waste Code: 251

Waste Description: OIL SKIMMINGS & SLUDGES

12 1 of 1 180.1 315.0 <u>WWIS</u> ON

Well Id: 6715462 Lot:
Concession: Concession Name:

County:WELLINGTONMunicipality:GUELPHEasting Nad83:562075Northing Nad83:4822260

 Easting Nad83:
 562075
 Northing Nad83:
 4822260

 Zone:
 17
 Utm Reliability:

Primary Water Use: Construction Date: 28-JUN-05
Sec. Water Use: Well Depth: 4.62 m

Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy:

Specific Capacity: Final Well Status: Observation Wells

**Construction** Diamond Flowing (y/n):

Method:
Elevation (m): 314.88 Elevation

Reliability:

Depth to Bedrock: 5 Overburden/Bedroc Bedrock

Water Type: Casing Material: PLASTIC

--- Details ---

Thickness: .15 m Original Depth: .15 m

Material Colour: Material:

Thickness: 1.37 m Original Depth: 1.52 m

Material Colour: BROWN Material: SAND, GRAVEL

DB Map Key Number of Distance Elevation Site Records m m Original Depth: Thickness: 3.1 m 4.62 m **GREY** Material: **ROCK** Material Colour: 1 of 1 189.2 315.0 **WWIS** 13 ON Well Id: 6715463 Lot: **Concession Name:** Concession: WELLINGTON **GUELPH** Municipality: County: Easting Nad83: 562075 Northing Nad83: 4822239 Zone: Utm Reliability: 17 Primary Water Use: **Construction Date:** 28-JUN-05 Sec. Water Use: Well Depth: 4.75 m Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy: Observation Wells Specific Capacity: Final Well Status: Construction Diamond Flowing (y/n): Method: Elevation (m): 314.92 Elevation Reliability: Depth to Bedrock: 5 Overburden/Bedroc **Bedrock** k: **PLASTIC** Water Type: Casing Material: --- Details ---Thickness: .42 m Original Depth: .5 m Material Colour: **BLACK** Material: FILL, SAND, GRAVEL Original Depth: Thickness: 1.02 m 1.52 m Material Colour: **BROWN** Material: SAND, GRAVEL Thickness: 3.23 m Original Depth: 4.75 m Material: Material Colour: **GREY ROCK** + Thickness: .08 m Original Depth: .08 m Material Colour: Material: 14 1 of 34 192.3 315.0 ABS Friction Corp. <u>CA</u> 10 Kingsmill Avenue Guelph ON Certificate #: 2759-666KLE Application Year: 2004 Issue Date: 11/9/2004 Approval Type: Air Revoked and/or Replaced Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: **Project Description:** Contaminants:

**Emission Control:** 

DB Map Key Number of Distance Elevation Site Records m m 2 of 34 192.3 315.0 ABS Friction Inc. CA 14 10 Kingsmill Ave Guelph ON Certificate #: 9794-8B2QVF Application Year: 2010 11/30/2010 Issue Date: Approval Type: Air Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: **Project Description:** Contaminants: **Emission Control:** 14 3 of 34 192.3 315.0 10 Kingsmill Avenue CA Guelph ON N1E 5V9 7631-4N7QAQ Certificate #: Application Year: 00 10/4/00 Issue Date: Industrial air Approval Type: Approved Status: Application Type: Amended CofA Client Name: ABS Friction Inc. Client Address: 10 Kingsmill Avenue Guelph Client City: Client Postal Code: N1E 5V9 Project Description: This application is for an Air Certificate of Approval for the installation of one more dust collector to service the new in plant process equipment for a manufacturer of friction brake pads for automobiles. Contaminants: **Emission Control:** 192.3 315.0 ABS FRICTION INC. 14 4 of 34 <u>CA</u> 10 KINGSMILL AVENUE **GUELPH CITY ON N1E 5V9** Certificate #: 8-2110-97-Application Year: 97 11/12/1997 Issue Date: Industrial air Approval Type: Approved Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: INFRARED CURING OVEN, MOLD/CURE PRESS Contaminants: Suspended Particulate Matter, Nitrogen Oxides, Ammonia, Phenol **Emission Control:** Baghouse (Incl Vent Fil.)

Number of Distance Elevation Site DB Map Key Records 14 5 of 34 192.3 315.0 ABS Friction Corp. <u>CA</u> 10 Kingsmill Ave Guelph ON 4905-7DZPZX Certificate #: Application Year: 2008 Issue Date: 4/28/2008 Approval Type: Air Status: Revoked and/or Replaced Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 315.0 ABS Friction Inc. **EBR** 14 6 of 34 192.3 10 Kingsmill Avenue Guelph ON N1E 5V9 2003 Year: EBR Registry No.: IA03E1466 1496-5SJLXY Ministry Ref. No.: Instrument Decision Type: Instrument Type: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9 Proposal Date: 10 Kingsmill Avenue Guelph Ontario N1E 5V9 Location: 10 Kingsmill Avenue Guelph Ontario N1E 5V9 **Proponent Address:** 14 7 of 34 192.3 315.0 ABS Friction Corp. **EBR** 10 Kingsmill Avenue Guelph ON N1E 5V9 Year: 2009 010-7495 EBR Registry No.: Ministry Ref. No.: 3720-7UFPP6 Type: Instrument Proposal Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air) Proposal Date: August 07, 2009 Location: 10 Kingsmill Avenue Guelph, County of Wellington N1E 5V9 10 Kingsmill avenue Guelph Ontario Canada N1E 5V9 **Proponent Address:** 315.0 14 8 of 34 192.3 ABS Friction Inc. **EBR** City of Guelph ON 1997 Year: EBR Registry No.: IA7E0800 Ministry Ref. No.: Type: Instrument Instrument Type: EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air) Proposal Date: City of Guelph Location: ABS Friction Inc.,10 Kingsmill Avenue, Guelph, Ontario, N1E 5V9 Proponent Address:

Number of Distance Elevation Site DB Map Key Records m m 9 of 34 192.3 315.0 **ABS Friction Inc** 14 **EBR** 10 Kingsmill Avenue **Guelph ON N1E 5V9** Year: 2000 EBR Registry No.: IA00E0905 Ministry Ref. No.: Type: Instrument Instrument Type: EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air) Proposal Date: 10 Kingsmill Avenue, Guelph, Ontario, N1E 5V9Guelph Location: Proponent Address: ABS Friction Inc.10 Kingsmill Avenue, Guelph, Ontario, N1E 5V9 10 of 34 14 192.3 315.0 10 Kingsmill Avenue **EHS** Guelph ON N1E 5V9 Order No.: 20030602006 Report Date: 6/6/03 Complete Report Report Type: Search Radius (km): 0.30 Addit. Info Ordered: 14 11 of 34 192.3 315.0 10 Kingsmill Ave **EHS** Guelph ON N1E 5V9 20000711001 Order No.: 7/17/00 Report Date: Complete Report Report Type: Search Radius (km): 0.25 Addit. Info Ordered: 12 of 34 192.3 315.0 2049936 Ontario Ltd <u>GEN</u> 14 10 Kingsmill Ave Guelph ON N1E 5V9 SIC Code: SIC Description: ON9004317 Generator #: Approval Yrs: As of Apr 2012 --- Details ---145 Waste Code: Waste Description: Wastes from the use of pigments, coatings and paints Waste Code: 251 Waste Description: Waste oils/sludges (petroleum based) Waste Code: Waste Description: Waste crankcase oils and lubricants Waste Code: 253 Waste Description: **Emulsified oils** 

| Мар Кеу  | Number of<br>Records | Distance<br>m                                  | Elevation<br>m    | Site  | DB         |
|--|----------------------|--|-------------------|---|------------|
| 14   | 13 of 34             | 192.3  | 315.0             | ABS FRICTION INC.<br>10 Kingsmill Avenue<br>Guelph ON                 | GEN        |
| SIC Code:<br>SIC Descrip<br>Generator:<br>Approval Y | #:                   | 336340<br>Motor Vehicle E<br>ON2390500<br>2011 | Brake System Manu | facturing   |            |
| Details -<br>Waste Co<br>Waste De                    |                      | 145<br>PAINT/PIGMEN                            | NT/COATING RESI   | DUES  |            |
|  | ode:<br>escription:  | 331<br>WASTE COMP                              | RESSED GASES      |   |            |
| +<br>Waste Co<br>Waste De                            | ode:<br>escription:  | 251<br>OIL SKIMMING                            | S & SLUDGES       |   |            |
| Waste Co   | ode:<br>escription:  | 252<br>WASTE OILS 8                            | & LUBRICANTS      |   |            |
| 14   | 14 of 34             | 192.3  | 315.0             | GUELPH (OUT OF BUSINESS)D<br>10 KINGSMILL AVENUE<br>GUELPH ON N1E 5V9 | GEN        |
| SIC Code:<br>SIC Descrip<br>Generator:<br>Approval Y | #:                   | 3059<br>OTHER WIRE<br>ON0389204<br>00,01       | PROD.             |   |            |
| Details -<br>Waste Co<br>Waste De                    |                      | 213<br>PETROLEUM I                             | DISTILLATES       |   |            |
| 14   | 15 of 34             | 192.3  | 315.0             | ABS FRICTION INC.<br>10 Kingsmill Avenue<br>Guelph ON                 | <u>GEN</u> |
| SIC Code:<br>SIC Descrip<br>Generator:<br>Approval Y | #:                   | 336340<br>Motor Vehicle E<br>ON2390500<br>2009 | Brake System Manu | facturing   |            |
|  |                      | 145<br>PAINT/PIGMEI                            | NT/COATING RESI   | DUES  |            |
|  | ode:<br>escription:  | 251<br>OIL SKIMMING                            | S & SLUDGES       |   |            |
| +<br>Waste Co<br>Waste De                            | ode:<br>escription:  | 252<br>WASTE OILS 8                            | LUBRICANTS        |   |            |
| +<br>Waste Co<br>Waste De                            | ode:<br>escription:  | 331<br>WASTE COMP                              | RESSED GASES      |   |            |
| 14   | 16 of 34             | 192.3  | 315.0             | ABS FRICTION INC.<br>10 Kingsmill Avenue                              | <u>GEN</u> |

DB Number of Elevation Site Map Key Distance Records **Guelph ON** SIC Code: 336340 SIC Description: Motor Vehicle Brake System Manufacturing ON2390500 Generator #: Approval Yrs: 2010 --- Details ---145 Waste Code: PAINT/PIGMENT/COATING RESIDUES Waste Description: Waste Code: 252 Waste Description: WASTE OILS & LUBRICANTS Waste Code: **OIL SKIMMINGS & SLUDGES** Waste Description: Waste Code: Waste Description: WASTE COMPRESSED GASES 14 17 of 34 192.3 315.0 **GUELPH TOOL & DIE LIMITED GEN** 10 KINGSMILL AVE. **GUELPH ON N1E 5V9** 3059 SIC Code: SIC Description: OTHER WIRE PROD. Generator #: ON0389204 94,95,96,97,98 Approval Yrs: --- Details ---Waste Code: Waste Description: PETROLEUM DISTILLATES ABS FRICTION CORP. 14 18 of 34 192.3 315.0 **GEN** 10 Kingsmill Avenue Guelph ON N1E 5V9 SIC Code: SIC Description: ON2390500 Generator #: Approval Yrs: 02,03,04,05,06,07,08 --- Details ---Waste Code: 251 Waste Description: **OIL SKIMMINGS & SLUDGES** 252 Waste Code: Waste Description: WASTE OILS & LUBRICANTS Waste Code: PAINT/PIGMENT/COATING RESIDUES Waste Description: 331 Waste Code: Waste Description: WASTE COMPRESSED GASES 14 19 of 34 192.3 315.0 **GUELPH TOOL & DIE LIMITED GEN** 

10 KINGSMILL AVENUE GUELPH ON N1E 5V9

| Мар Кеу   | Number of<br>Records    | Distance<br>m                                       | Elevation<br>m | Site   | DB             |
|---|-------------------------|---|----------------|--|----------------|
| SIC Code:<br>SIC Descrip<br>Generator #<br>Approval Y | <b>#</b> :              | 3059<br>OTHER WIRE<br>ON0389204<br>99               | PROD.          |  |                |
| Details<br>Waste Co<br>Waste De                       |                         | 213<br>PETROLEUM                                    | DISTILLATES    |  |                |
| 14  | 20 of 34                | 192.3   | 315.0          | CAMPBELL-COX FABRICATIONS<br>10 KINGS MILL ROAD C/O 367<br>WOODLAWN ROAD WEST<br>GUELPH ON N1E 5V9       | <u>GEN</u>     |
| SIC Code:<br>SIC Descrip<br>Generator #<br>Approval Y | <b>#</b> :              | 3029<br>OTHER FAB.<br>ON0879701<br>86,87,88,89,90   | STRUCTURES     |  |                |
| Details<br>Waste Co<br>Waste De<br>+                  |                         | 211<br>AROMATIC S                                   | OLVENTS        |  |                |
| Waste Co<br>Waste De                                  | ode:<br>escription:     | 213<br>PETROLEUM                                    | DISTILLATES    |  |                |
| 14  | 21 of 34                | 192.3   | 315.0          | CAMPBELL-COX(OUT OF BUS)<br>111<br>10 KINGS MILL ROAD C/O 367<br>WOODLAWN ROAD WEST<br>GUELPH ON N1E 5V9 | 07- <u>GEN</u> |
| SIC Code:<br>SIC Descrip<br>Generator #<br>Approval Y | <b>#</b> :              | 3029<br>OTHER FAB. 9<br>ON0879701<br>92,93,94,95,96 |                |  |                |
|   | <br>ode:<br>escription: | 211<br>AROMATIC S                                   | OLVENTS        |  |                |
| +<br>Waste Co<br>Waste De                             | ode:<br>escription:     | 213<br>PETROLEUM                                    | DISTILLATES    |  |                |
| 14  | 22 of 34                | 192.3   | 315.0          | ABS FRICTION INC.<br>10 KINGSMILL AVENUE<br>GUELPH ON N1E 5V9  | <u>GEN</u>     |
| SIC Code:<br>SIC Descrip<br>Generator ‡<br>Approval Y | <b>#:</b>               | 3255<br>VEH. WHEEL<br>ON2390500<br>98,99,00,01      | & BRAKE        |  |                |
| Details<br>Waste Co<br>Waste De                       |                         | 251   | GS & SLUDGES   |  |                |
| +<br>Waste Co<br>Waste De                             | ode:<br>escription:     | 252<br>WASTE OILS                                   | & LUBRICANTS   |  |                |

| Map Key                              | Number of<br>Records | Distance<br>m                       | Elevation<br>m     | Site  | DB          |
|--------------------------------------|----------------------|-------------------------------------|--------------------|---|-------------|
| 14                                   | 23 of 34             | 192.3                               | 315.0              | ABS Friction Inc.<br>10 Kingsmill Avenue<br>Guelph ON N1E 5V9                       | <u>NPRI</u> |
| NPRI #:<br>Year:                     |                      | 0000007671<br>2011                  |                    |   |             |
| Longitude:<br>Latitude:              |                      | -80.228<br>43.5513                  |                    |   |             |
| Details -<br>Air:<br>Water:<br>Land: |                      | .08                                 |                    |   |             |
| Units:<br>Substand                   | es Released:         | tonnes<br>Copper (and its           | compounds)         |   |             |
| +<br>Air:<br>Water:<br>Land:         |                      | 2.093                               |                    |   |             |
| Units:                               | es Released:         | tonnes<br>PM10 - Particula<br>1.046 | ate Matter <= 10 N | Microns   |             |
| Water:<br>Land:<br>Units:            | D. ( ) (             | tonnes                              |                    |   |             |
| Substant                             | es Released:         | PM2.5 - Particui                    | ate Matter <= 2.5  | Microns   |             |
| 14                                   | 24 of 34             | 192.3                               | 315.0              | KROSHERRA CORPORATION (17528 -<br>04/2014)<br>10 KINGSMILL AVE<br>GUELPH ON N1E 5V9 | <u>PES</u>  |
| Licence No<br>Licence Ty             |                      | 22-01-13728-0<br>GENERAL            |                    |   |             |
| 14                                   | 25 of 34             | 192.3                               | 315.0              | KROSHERRA CORPORATION (17528 -<br>04/2014)<br>10 KINGSMILL AVE<br>GUELPH ON N1E5V9  | PES         |
| Licence No<br>Licence Ty             |                      | Vendor                              |                    |   |             |
| 14                                   | 26 of 34             | 192.3                               | 315.0              | ABS Friction Inc.<br>10 Kingsmill Ave<br>Guelph ON N1E 5V9                          | <u>SCT</u>  |
| Establishe<br>Plant Size<br>Employme | (ft²):               | 01-AUG-96<br>50000                  |                    |   |             |
| Details -<br>SIC/NAIC<br>Descripti   | S Code:              | 336340<br>Motor Vehicle B           | rake System Man    | ufacturing  |             |

| Map Key                              | Number of<br>Records | Distance<br>m              | Elevation<br>m       | Site   | DB         |
|--------------------------------------|----------------------|----------------------------|----------------------|--|------------|
| 14                                   | 27 of 34             | 192.3                      | 315.0                | Superior Steel Fabricators<br>10 Kingsmill Ave<br>Guelph ON N1E 5V9          | <u>sct</u> |
| Establishe<br>Plant Size<br>Employme | (ft²):               | 01-AUG-85<br>20000         |                      |  |            |
| Details -<br>SIC/NAIC<br>Descripti   | S Code:              | 331110<br>Iron and Steel I | Mills and Ferro-Allo | by Manufacturing   |            |
| 14                                   | 28 of 34             | 192.3                      | 315.0                | ABS Friction Corp.<br>10 Kingsmill Ave<br>Guelph ON N1E 5V9                  | <u>SCT</u> |
| Establishe<br>Plant Size<br>Employme | (ft²):               | 1996<br>50000              |                      |  |            |
| Details -<br>SIC/NAIC<br>Descripti   | S Code:              | 336340<br>Motor Vehicle E  | Brake System Man     | ufacturing   |            |
| 14                                   | 29 of 34             | 192.3                      | 315.0                | EASTWING WOOD SPECIALTIES<br>10 KINGSMILL AVE REAR BLDG<br>GUELPH ON N1E 5V9 | <u>SCT</u> |
| Establishe<br>Plant Size<br>Employme | (ft²):               | 1993<br>3                  |                      |  |            |
| Details -<br>SIC/NAIC<br>Descripti   | S Code:              | 2431<br>MILLWORK           |                      |  |            |
| 14                                   | 30 of 34             | 192.3                      | 315.0                | THOMPSON DIV OF VALCOM LTD H I<br>10 KINGSMILL AVE<br>GUELPH ON N1E 5V9      | <u>sct</u> |
| Establishe<br>Plant Size<br>Employme | (ft²):               | 1952<br>35                 |                      |  |            |
| Details SIC/NAIC                     | <br>CS Code:         | 3769                       | ILE & SPACE VEH      | HICLE PARTS  |            |
| 14                                   | 31 of 34             | 192.3                      | 315.0                | WENA MFG. CO. LTD.<br>10-A KINGSMILL AVE<br>GUELPH ON N1E 5V9                | <u>sct</u> |
| Establishe<br>Plant Size<br>Employme | (ft²):               | 1985<br>2700<br>7          |                      |  |            |
| Details -<br>SIC/NAIC                |                      | 3499                       |                      |  |            |

| Map Key   | Number<br>Records   |  | Elevation<br>m  | Site  | DB  |    |
|---|---|--|---|---|---|----|
| Descripti   | ion:  | FABRICATED   | METAL PRODUC  | TS, NOT ELSEWHERE CL  | ASSIFIED  |    |
| 14  | 32 of 34  | 192.3  | 315.0   | Wena Manufacturing<br>10 Kingsmill Rd<br>Guelph ON N1E 5V9  | Co. Ltd. <u>SCT</u>   |    |
| Establishe<br>Plant Size<br>Employme  | (ft²):  | 1985<br>2700<br>7  |   |   |   |    |
| 14  | 33 of 34  | 192.3  | 315.0   | Wena Manufacturing<br>10 Kingsmill Ave<br>Guelph ON N1E 5V9   | Co. Ltd. SCT  |    |
| Establishe<br>Plant Size<br>Employme  | (ft²):  | 1985<br>20000<br>12  |   |   |   |    |
| Details -<br>SIC/NAIC<br>Descripti  | S Code:   | 331110<br>Iron and Stee  | l Mills and Ferro-All   | oy Manufacturing  |   |    |
| 14  | 34 of 34  | 192.3  | 315.0   | Superior Steel Fabrio<br>10 Kingsmill Ave<br>Guelph ON N1E 5V9  | cators <u>SPL</u>   |    |
| Incident Su<br>Incident Ca<br>Incident Re<br>Nature of I<br>Receiving   | rted Dt:<br>int Name:<br>int Quantity<br>immary:<br>ause:<br>eason:<br>mpact: | : 1200 L<br>Superior Stee<br>Other Dischar<br>Fire/Explosior<br>Surface Wate | t (PARTICULATE C<br>of Fab, 1200L fire wanges<br>on - Resulting from fire | ater, Land  | ences which cause a fire or explosion   | n) |
| 15  | 1 of 1  | 193.7  | 315.0   | ON  | <u>wwis</u>   |    |
| Well Id: Concessio County: Easting Na Zone: Primary Wa Sec. Water Pump Rate: Flow Rate: Specific Ca Constructif Method: | nd83:<br>ater Use:<br>· Use:<br>o:<br>apacity:                                | 7174595  WELLINGTON 562065 17 Test Hole Monitoring  Diamond                  |   | Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): | GUELPH 4822249 margin of error : 30 m - 100 m 26-OCT-11 4.57 m  Observation Wells |    |
| Elevation ( Depth to B  | -   |  |   | Elevation<br>Reliability:<br>Overburden/Bedroc  |   |    |

|  | lumber<br>Records |  | Distance<br>m | Elevation<br>m | Site  | DB   |
|--|-------------------|--|---------------|----------------|---|--|
| Water Type:  |                   |  |               |                | k:<br>Casing Material:  | PLASTIC  |
| Details  |                   |  |               |                |   |  |
| Thickness:<br>Material Colo<br>+   | our:              | .31 m<br>BROWN                                   |               |                | Original Depth:<br>Material:  | .31 m<br>TOPSOIL, STONES, SOFT   |
| Thickness:<br>Material Colo  | our:              | 1.51 m<br>BROWN                                  |               |                | Original Depth:<br>Material:  | 1.82 m<br>STONES, SAND, LOOSE  |
| +<br>Thickness:<br>Material Colo   | our:              | 2.75 m<br>BROWN                                  |               |                | Original Depth:<br>Material:  | 4.57 m<br>SANDSTONE, , HARD  |
| 16 10  | of 1              |  | 193.7         | 314.0          | ON  | <u>wwis</u>  |
| Well Id: Concession: County: Easting Nad83. Zone: Primary Water Sec. Water Use Pump Rate: Flow Rate: Specific Capac Construction Method: | Use:<br>e:        | 7108608<br>WELLING<br>562104<br>17<br>Monitoring |               |                | Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): | GUELPH 4822466 margin of error: 10 - 30 m 07-JUL-08 3.05 m  Test Hole          |
| Elevation (m): Depth to Bedro  | ock:              | 314.66   |               |                | Elevation<br>Reliability:<br>Overburden/Bedroc<br>k:  |  |
| Water Type:  |                   |  |               |                | Casing Material:  | PLASTIC  |
| Details  |                   |  |               |                |   |  |
| Thickness:<br>Material Colo  | our:              | 1.82 m<br>BLACK                                  |               |                | Original Depth:<br>Material:  | 1.82 m<br>PEAT, TOPSOIL, SOFT  |
| Thickness:<br>Material Colo  | our:              | 1.23 m<br>BLACK                                  |               |                | Original Depth:<br>Material:  | 3.05 m<br>STONES, PEAT, SOFT   |
| 17 1 0   | of 1              |  | 200.9         | 315.0          | ON  | <u>wwis</u>  |
| Well Id: Concession: County: Easting Nad83. Zone: Primary Water Sec. Water Use Pump Rate: Flow Rate: Specific Capac Construction Method: | Use:<br>e:        | 7178856<br>WELLING<br>562048<br>17<br>Monitoring |               |                | Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): | GUELPH 4822274 margin of error: 30 m - 100 m 02-MAR-12 3 ft  Observation Wells |

DB Map Key Number of Distance Elevation Site Records m Elevation (m): Elevation Reliability: Depth to Bedrock: Overburden/Bedroc Water Type: Casing Material: **PLASTIC** --- Details ---Thickness: 3 ft Original Depth: 3 ft **BROWN** SAND, GRAVEL Material Colour: Material: 12 ft Original Depth: 15 ft Thickness: **Material Colour: GREY** Material: **ROCK** 18 1 of 5 203.0 314.8 212 Alice Street **EHS Guelph ON N1E 3A8** 20050422034 Order No.: Report Date: 5/3/2005 Report Type: Search Radius (km): 0.25 Addit. Info Ordered: 314.8 **GEN** 18 2 of 5 203.0 Aim Waste Management 212 Alice Street **Guelph ON N1E 3A8** SIC Code: 238990 SIC Description: All Other Specialty Trade Contractors ON8672271 Generator #: Approval Yrs: 2009 --- Details ---Waste Code: 221 Waste Description: LIGHT FUELS 18 3 of 5 203.0 314.8 **EARL SMITH** <u>GEN</u> 212 ALICE STREET **GUELPH ON N1E 3A8** SIC Code: 814110 SIC Description: Private Households ON9139444 Generator #: Approval Yrs: 2010 --- Details ---Waste Code: 221 LIGHT FUELS Waste Description: 18 4 of 5 203.0 314.8 **EARL SMITH GEN** 212 ALICE STREET **GUELPH ON N1E 3A8** SIC Code: 814110 SIC Description: Private Households Generator #: ON9139444 Approval Yrs: 2011

DB Map Key Number of Distance Elevation Site Records m m --- Details ---221 Waste Code: Waste Description: LIGHT FUELS 18 5 of 5 203.0 314.8 STANTEC CONSULTING INC. <u>GEN</u> 212 ALICE STREET **GUELPH ON N1E 3A8** SIC Code: SIC Description: ON8394759 Generator #: Approval Yrs: As of Apr 2012 --- Details ---Waste Code: 150 Waste Description: Inert organic wastes 19 1 of 1 203.9 315.0 **WWIS** ON 6709855 Well Id: Lot: **Concession Name:** Concession: WELLINGTON **GUELPH** County: Municipality: Easting Nad83: 562054.3 Northing Nad83: 4822248 Zone: Utm Reliability: margin of error: 10 - 30 m Primary Water Use: Industrial Construction Date: 11-JUL-89 Sec. Water Use: Well Depth: 6 ft 1 GPM Static Water Level: 4 ft Pump Rate: Flow Rate: Clear/Cloudy: Test Hole Specific Capacity: Final Well Status: Construction Rotary (Convent.) Flowing (y/n): Method: 314.83 Elevation (m): Elevation Reliability: Depth to Bedrock: 6 Overburden/Bedroc **Bedrock** k: Not stated **OPEN HOLE, STEEL** Water Type: Casing Material: --- Details ---Thickness: 6 ft Original Depth: 6 ft Material Colour: **BROWN** Material: CLAY, SAND, GRAVEL Thickness: 15 ft Original Depth: Material Colour: **GREY** Material: LIMESTONE, HARD 206.5 315.0 **WWIS** 20 1 of 1 ON Well Id: 6715346 Lot: Concession: **Concession Name:** WELLINGTON Municipality: **GUELPH** County: Northing Nad83: Easting Nad83: 562403 4822458 Zone: 17 Utm Reliability: Primary Water Use: Construction Date: 09-FEB-04 Sec. Water Use: Well Depth: 2.2 m Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy:

| Map Key                                 | Numbe<br>Record |                  | Distance<br>m | Elevation<br>m | Site                                   | DB  |
|---|-----------------|------------------|---------------|----------------|--|---|
| Specific Ca<br>Constructio              |                 | Diamond          |               |                | Final Well Status: Flowing (y/n):      | Observation Wells                           |
| Method:<br>Elevation (n                 | n):             | 315.79           |               |                | Elevation<br>Reliability:              |   |
| Depth to Be                             | edrock:         | 7                |               |                | Overburden/Bedroc<br>k:                | Bedrock                                     |
| Water Type                              | <i>:</i>        |                  |               |                | Casing Material:                       | PLASTIC                                     |
| Details                                 | -               |                  |               |                |  |   |
| Thickness                               | s <i>:</i>      | .4 m             |               |                | Original Depth:                        | .4 m  |
| Material C                              | Colour:         | BROWN            |               |                | Material:                              | SAND, SILT, GRAVEL                          |
| Thickness                               | s <i>:</i>      | 1.8 m            |               |                | Original Depth:                        | 2.2 m                                       |
| Material C                              | Colour:         | BROWN            |               |                | Material:                              | SILT, SAND, GRAVEL                          |
| +<br>Thickness                          | s <i>:</i>      | 9.6 m            |               |                | Original Depth:                        | 11.8 m                                      |
| Material C                              | Colour:         | GREY             |               |                | Material:                              | DOLOMITE, GRAVEL, FRACTURED                 |
| 21                                      | 1 of 1          |                  | 209.7         | 314.7          |  | <u>wwis</u>                                 |
|   |                 |                  |               |                | ON                                     |   |
| Well Id:<br>Concession                  | 1:              | 7178857          |               |                | Lot:<br>Concession Name:               |   |
| County:                                 |                 | WELLING          | TON           |                | Municipality:                          | GUELPH                                      |
| Easting Nad                             | 183:            | 562038           |               |                | Northing Nad83:                        | 4822277                                     |
| Zone:<br>Primary Wa                     | tor Hea:        | 17<br>Monitoring | ,             |                | Utm Reliability:<br>Construction Date: | margin of error : 30 m - 100 m<br>06-MAR-12 |
| Sec. Water                              |                 | Monitoring       | 9             |                | Well Depth:                            | 3 ft  |
| Pump Rate:                              | •               |                  |               |                | Static Water Level:                    |   |
| Flow Rate:                              | _               |                  |               |                | Clear/Cloudy:                          |   |
| Specific Ca <sub>l</sub><br>Constructio |                 | Diamond          |               |                | Final Well Status:                     | Observation Wells                           |
| Constructio<br>Method:                  | ori             | Diamond          |               |                | Flowing (y/n):                         |   |
| Elevation (n                            | n):             |                  |               |                | Elevation                              |   |
| -                                       | -               |                  |               |                | Reliability:                           |   |
| Depth to Be                             | edrock:         |                  |               |                | Overburden/Bedroc                      |   |
| Water Type.                             | :               |                  |               |                | k:<br>Casing Material:                 | PLASTIC,STEEL                               |
| Details                                 | · <b>-</b>      |                  |               |                |  |   |
| Thickness                               |                 | 3 ft             |               |                | Original Depth:                        | 3 ft  |
| Material C                              | Colour:         | BLACK            |               |                | Material:                              | FILL, , LOOSE                               |
| +<br>Thickness                          |                 | 12 ft            |               |                | Original Depth:                        | 15 ft                                       |
| Material C                              | Colour:         | GREY             |               |                | Material:                              | ROCK, , HARD                                |
| 22                                      | 1 of 1          |                  | 212.4         | 315.0          | ON                                     | <u>wwis</u>                                 |
| Well Id:                                |                 | 7178858          |               |                | Lot:                                   |   |
| Concession                              | 1:              |                  |               |                | Concession Name:                       |   |
|   |                 | WELLING          | TON           |                | Municipality:                          | GUELPH                                      |
| County:                                 | 100             | E00000           |               |                |  | 4 S P P P P P A                             |
| County:<br>Easting Nad<br>Zone:         | d83:            | 562039<br>17     |               |                | Northing Nad83:<br>Utm Reliability:    | 4822264<br>margin of error : 30 m - 100 m   |

DB Number of Distance Elevation Site Map Key Records m m Sec. Water Use: Well Depth: 3 ft Static Water Level: Pump Rate: Flow Rate: Clear/Cloudy: **Observation Wells** Specific Capacity: Final Well Status: Construction Diamond Flowing (y/n): Method: Elevation (m): Elevation Reliability: Overburden/Bedroc Depth to Bedrock: **PLASTIC** Water Type: Casing Material: --- Details ---Original Depth: Thickness: 3 ft 3 ft **BROWN** Material: **Material Colour:** SAND, GRAVEL Thickness: 12 ft Original Depth: 15 ft Material Colour: **GREY** Material: **ROCK** 23 1 of 1 217.2 315.0 Bentley Mobile Veterinary Service **GEN** 1 Simcoe Street Guelph ON N1E 3B7 SIC Code: 541940 Veterinary Services SIC Description: Generator #: ON3054891 07,08 Approval Yrs: --- Details ---Waste Code: Waste Description: **PHARMACEUTICALS** Waste Code: 312 PATHOLOGICAL WASTES Waste Description: 24 1 of 1 221.1 314.5 **WWIS** ON Well Id: 7189743 Lot: Concession: **Concession Name:** WELLINGTON **GUELPH** County: Municipality: Northing Nad83: Easting Nad83: 562029 4822267 margin of error: 30 m - 100 m Zone: 17 Utm Reliability: Primary Water Use: **Construction Date:** 12-SEP-12 Sec. Water Use: Well Depth: Pump Rate: Static Water Level: Flow Rate: Clear/Cloudy: Specific Capacity: Final Well Status: Construction Flowing (y/n): Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Overburden/Bedroc Water Type: Casing Material:

DB Map Key Number of Distance Elevation Site Records m 25 1 of 11 223.9 315.0 FOSECO CANADA INC. <u>CA</u> ALICE STREET **GUELPH CITY ON** Certificate #: 4-0104-89-006 Application Year: 89 Issue Date: 9/26/89 Approval Type: Industrial wastewater Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: CONTAMINATED GROUNDWATER CLEAN UP Contaminants: **Emission Control:** 2 of 11 223.9 315.0 FOSECO CANADA INC. <u>CA</u> 25 ALICE STREET **GUELPH CITY ON** Certificate #: 8-2153-89-Application Year: 89 Issue Date: 8/11/1989 Approval Type: Industrial air Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: **Project Description: TOLUENE STRIPPER FOR GROUNDWATER** Contaminants: Toluene(Pentyl Methane)(Methyl Benzene), Benzene (Carcinogen Requires Bact) **Emission Control:** Other - Air 25 3 of 11 223.9 315.0 **BP CANADA ENERGY COMPANY GEN** 201 ALICE STREET **GUELPH ON N1E 3A7** SIC Code: SIC Description: ON3960034 Generator #: As of Apr 2012 Approval Yrs: --- Details ---Waste Code: Waste Description: Aromatic solvents and residues 25 4 of 11 223.9 315.0 FOSECO CANADA INC. 15-151 <u>GEN</u> **201 ALICE STREET GUELPH ON N1E 3A7** SIC Code: 3591 SIC Description: REFRACTORIES IND. Generator #: ON0081801 92,93,94,95,96,97 Approval Yrs:

Map Key Number of Distance Elevation Site DB Records m m

--- Details ---

Waste Code: 114

Waste Description: OTHER INORGANIC ACID WASTES

+

Waste Code: 122

Waste Description: ALKALINE WASTES - OTHER METALS

+

Waste Code: 132

Waste Description: NEUTRALIZED WASTES - OTHER METALS

+

Waste Code: 145

Waste Description: PAINT/PIGMENT/COATING RESIDUES

+

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

+

Waste Code: 148

Waste Description: INORGANIC LABORATORY CHEMICALS

+

Waste Code: 211

Waste Description: AROMATIC SOLVENTS

+

Waste Code: 212

Waste Description: ALIPHATIC SOLVENTS

+

Waste Code: 213

Waste Description: PETROLEUM DISTILLATES

+

Waste Code: 232

Waste Description: POLYMERIC RESINS

+

Waste Code: 233

Waste Description: OTHER POLYMERIC WASTES

+

Waste Code: 241

Waste Description: HALOGENATED SOLVENTS

+

Waste Code: 251

Waste Description: OIL SKIMMINGS & SLUDGES

+

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

+

Waste Code: 268
Waste Description: AMINES

25 5 of 11 223.9 315.0 FOSECO CANADA INC.(OUT OF <u>GEN</u>

BUSINESS) 201 ALICE STREET GUELPH ON N1E 3A7

**SIC Code:** 3591

SIC Description: REFRACTORIES IND.

Generator #: ON0081801

Approval Yrs: 98

--- Details ---

Waste Code: 114

Waste Description: OTHER INORGANIC ACID WASTES

Site DB Map Key Number of Distance Elevation Records Waste Code: 122 Waste Description: ALKALINE WASTES - OTHER METALS Waste Code: 132 Waste Description: **NEUTRALIZED WASTES - OTHER METALS** Waste Code: PAINT/PIGMENT/COATING RESIDUES Waste Description: Waste Code: 146 OTHER SPECIFIED INORGANICS Waste Description: Waste Code: INORGANIC LABORATORY CHEMICALS Waste Description: Waste Code: 211 AROMATIC SOLVENTS Waste Description: Waste Code: Waste Description: ALIPHATIC SOLVENTS Waste Code: Waste Description: PETROLEUM DISTILLATES Waste Code: POLYMERIC RESINS Waste Description: Waste Code: OTHER POLYMERIC WASTES Waste Description:

+

Waste Code: 241

Waste Description: HALOGENATED SOLVENTS

+

Waste Code: 25°

Waste Description: OIL SKIMMINGS & SLUDGES

+

Waste Code: 263

Waste Description: ORGANIC LABORATORY CHEMICALS

+

Waste Code: 268
Waste Description: AMINES

25 6 of 11 223.9 315.0 FOSECO CANADA INC. <u>GEN</u>

201 ALICE STREET C/O 361 SPEEDVALE

AVENUE WEST GUELPH ON N1E 3A7

**SIC Code:** 3591

**SIC Description:** REFRACTORIES IND.

 Generator #:
 ON0081801

 Approval Yrs:
 86,87,88,89,90

--- Details ---

Waste Code: 146

Waste Description: OTHER SPECIFIED INORGANICS

+

Waste Code: 211

Waste Description: AROMATIC SOLVENTS

| Мар Кеу   | Number of<br>Records | Distance<br>m  | Elevation<br>m            | Site   | DB         |
|---|----------------------|--|---------------------------|--|------------|
| 25  | 7 of 11              | 223.9  | 315.0                     | BP CANADA ENERGY COMPANY<br>201 ALICE STREET<br>GUELPH ON N1E 3A7  | <u>GEN</u> |
| SIC Code:<br>SIC Descri<br>Generator:<br>Approval Y | #:                   | 336390<br>Other Motor Ve<br>ON3960034<br>2011        | hicle Parts Manufa        | acturing   |            |
| Details -<br>Waste Co<br>Waste De                   |                      | 211<br>AROMATIC SC                                   | DLVENTS                   |  |            |
| 25  | 8 of 11              | 223.9  | 315.0                     | BP CANADA<br>201 ALICE STREET<br>GUELPH ON N1E 3A7                 | <u>GEN</u> |
| SIC Code:<br>SIC Descri<br>Generator:<br>Approval Y | #:                   | 336390<br>Other Motor Ve<br>ON3960034<br>04,05,06,07 | hicle Parts Manufa<br>,08 | acturing   |            |
| Details -<br>Waste Co<br>Waste De                   |                      | 211<br>AROMATIC SC                                   | DLVENTS                   |  |            |
| 25  | 9 of 11              | 223.9  | 315.0                     | Bryco Construction Management<br>201 Alice St<br>Guelph ON N1E 3A7 | <u>GEN</u> |
| SIC Code:<br>SIC Descri<br>Generator:<br>Approval Y | #:                   | ON5084757<br>03,04                                   |                           |  |            |
| 25  | 10 of 11             | 223.9  | 315.0                     | BP CANADA ENERGY COMPANY<br>201 ALICE STREET<br>GUELPH ON N1E 3A7  | <u>GEN</u> |
| SIC Code:<br>SIC Descri<br>Generator<br>Approval Y  | #:                   | 336390<br>Other Motor Ve<br>ON3960034<br>2009        | hicle Parts Manufa        | acturing   |            |
| Details -<br>Waste Co<br>Waste De                   |                      | 211<br>AROMATIC SC                                   | DLVENTS                   |  |            |
| 25  | 11 of 11             | 223.9  | 315.0                     | BP CANADA ENERGY COMPANY<br>201 ALICE STREET<br>GUELPH ON N1E 3A7  | <u>GEN</u> |
| SIC Code:<br>SIC Descri<br>Generator<br>Approval Y  | #:                   | 336390<br>Other Motor Ve<br>ON3960034<br>2010        | hicle Parts Manufa        | acturing   |            |

| Map Key                                   | Number<br>Records |  | Elevation<br>m   | Site  | DB         |
|---|-------------------|--|------------------|---|------------|
| Details -<br>Waste Co<br>Waste De         |                   | 211<br>AROMATIC SOL                                    | VENTS            |   |            |
| 26  | 1 of 3            | 243.0  | 315.0            | STEELE BROS (GUELPH-1986) LTD<br>60 JOHNSTON ST<br>GUELPH ON N1E 5T6    | <u>SCT</u> |
| Establishe<br>Plant Size<br>Employme      | (ft²):            | 1986<br>6500<br>10                                     |                  |   |            |
| Details -<br>SIC/NAIC<br>Descripti<br>+   | S Code:           | 3495<br>WIRE SPRINGS                                   |                  |   |            |
| SIC/NAIC<br>Descripti                     |                   | 3496<br>MISCELLANEOU                                   | JS FABRICATE     | D WIRE PRODUCTS   |            |
| 26  | 2 of 3            | 243.0  | 315.0            | Steele Bros. (Guelph, 1986) Ltd.<br>60 Johnston St<br>Guelph ON N1E 5T6 | SCT        |
| Establishe<br>Plant Size<br>Employme      | (ft²):            | 1986<br>6500<br>13                                     |                  |   |            |
| 26  | 3 of 3            | 243.0  | 315.0            | Steele Bros.<br>60 Johnston St<br>Guelph ON N1E 5T6                     | <u>SCT</u> |
| Establishe<br>Plant Size<br>Employme      | (ft²):            | 01-AUG-86<br>15000                                     |                  |   |            |
| Details -<br>SIC/NAIC<br>Descripti        | S Code:           | 332619<br>Other Fabricated                             | l Wire Product M | lanufacturing   |            |
| +<br>SIC/NAIC<br>Descripti                |                   | 332210<br>Cutlery and Hand                             | d Tool Manufact  | uring   |            |
| 27  | 1 of 7            | 246.5  | 315.0            | MAPLE LEAF GAS<br>390 YORK RD<br>GUELPH ON N1E 3H4                      | <u>FST</u> |
| License Iss<br>Tank Statu<br>Facility Typ | s As Of:          | 9/27/2002<br>August 2007<br>Gasoline Station - Full Se | rve              | Tank Status: Pending Renewa Retail Fuel Outle                           |            |
|   |                   |  |                  |   |            |
| Tank Fue                                  |                   | Liquid Fuel Singl                                      | e Wall UST - Ga  | asoline   |            |
| +<br>Status:                              |                   | Active   |                  |   |            |

DB Elevation Site Map Key Number of Distance Records m m Capacity (L): 35000 1987 Year of Installation: **Corrosion Protection:** Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline Status: Active Capacity (L): 25000 Year of Installation: 1987 Corrosion Protection: Liquid Fuel Single Wall UST - Gasoline Tank Fuel Type: Active Status: 15000 Capacity (L): Year of Installation: 1987 **Corrosion Protection:** Liquid Fuel Single Wall UST - Diesel Tank Fuel Type: 27 2 of 7 246.5 315.0 MAPLE LEAF GAS **FST** 390 YORK RD **GUELPH ON N1E 3H4** 9/27/2002 Licensed License Issue Date: Tank Status: December 2008 Retail Fuel Outlet Tank Status As Of: Operation Type: Gasoline Station - Full Serve Facility Type: --- Details ---Active Status: 25000 Capacity (L): Year of Installation: 1987 **Corrosion Protection:** Liquid Fuel Single Wall UST - Gasoline Tank Fuel Type: Status: Active 35000 Capacity (L): Year of Installation: 1987 **Corrosion Protection:** Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline Status: Active Capacity (L): 25000 Year of Installation: 1987 **Corrosion Protection:** Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline Status: Active 15000 Capacity (L): 1987 Year of Installation: **Corrosion Protection:** Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel 27 3 of 7 246.5 315.0 MAPLE LEAF GAS **FST** 390 YORK RD **GUELPH ON N1E 3H4** License Issue Date: Tank Status: Tank Status As Of: June 2011 Operation Type: Retail Fuel Outlet Facility Type: FS GASOLINE STATION - FULL SERVE

--- Details ---

DB Elevation Site Map Key Number of Distance Records m Status: Active 25000 Capacity (L): Year of Installation: 1985 Sacrificial anode **Corrosion Protection:** Liquid Fuel Single Wall UST - Gasoline Tank Fuel Type: Status: Active Capacity (L): 15000 1988 Year of Installation: **Corrosion Protection:** Sacrificial anode Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel Status: Active Capacity (L): 35000 1988 Year of Installation: Sacrificial anode **Corrosion Protection:** Liquid Fuel Single Wall UST - Gasoline Tank Fuel Type: Active Status: 25000 Capacity (L): Year of Installation: 1985 **Corrosion Protection:** Sacrificial anode Liquid Fuel Single Wall UST - Gasoline Tank Fuel Type: 27 4 of 7 246.5 315.0 **MAPLE LEAF GAS FST** 390 YORK RD **GUELPH ON N1E 3H4** License Issue Date: Tank Status: Tank Status As Of: June 2010 Operation Type: Retail Fuel Outlet Facility Type: FS GASOLINE STATION - FULL SERVE --- Details ---Active Status: 25000 Capacity (L): 1985 Year of Installation: Sacrificial anode **Corrosion Protection:** Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline Status: Active Capacity (L): 15000 1988 Year of Installation: **Corrosion Protection:** Sacrificial anode Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel Status: Active 35000 Capacity (L): Year of Installation: 1988 **Corrosion Protection:** Sacrificial anode Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline 27 5 of 7 246.5 315.0 MAPLE LEAF GAS **FST** 390 YORK RD **GUELPH ON N1E 3H4** Tank Status:

License Issue Date: Tank Status As Of: January 2010

Operation Type:

FS GASOLINE STATION - FULL SERVE Facility Type:

Retail Fuel Outlet

DB Map Key Number of Distance Elevation Site Records m m --- Details ---Active Status: Capacity (L): 25000 1985 Year of Installation: **Corrosion Protection:** Sacrificial anode Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline Status: Active 15000 Capacity (L): 1988 Year of Installation: **Corrosion Protection:** Sacrificial anode Liquid Fuel Single Wall UST - Diesel Tank Fuel Type: Status: Active 35000 Capacity (L): Year of Installation: 1988 **Corrosion Protection:** Sacrificial anode Liquid Fuel Single Wall UST - Gasoline Tank Fuel Type: 27 6 of 7 246.5 315.0 MAPLE LEAF GAS & FUELS LTD AND **PRT QUALITY AUTO GLASS** 390 YORK RD **GUELPH ON N1E3H4** Location ID: 5684 Type: retail Expiry Date: 1995-07-31 Capacity (L): 100000 Licence #: 0054464001 MAPLE LEAF GAS & FUELS LTD 27 7 of 7 246.5 315.0 <u>RST</u> 390 YORK RD **GUELPH ON N1E 3H4** Facility: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS Description: 28 1 of 9 248.1 315.0 1028119 ONTARIO LIMITED **EXP** 408 YORK RD **GUELPH ON N1E 3H5** TSSA Program Area: Maximum Hazard Rank: Federal Device: Type: Capacity: Corrosion Protection: Tank Material: Tank Type: Expire Date: Instance ID: 394083 9737014 Instance Number: Instance Type: FS Facility **EXPIRED** Status: Description: FS Gasoline Station - Full Serve

DB Map Key Number of Distance Elevation Site Records 315.0 28 2 of 9 248.1 1028119 ONTARIO LIMITED **EXP** 408 YORK RD **GUELPH ON N1E 3H5** TSSA Program Area: Maximum Hazard Rank: Federal Device: Type: Capacity: **Corrosion Protection:** Tank Material: Tank Type: Expire Date: 72063 Instance ID: Instance Number: 11181073 FS Liquid Fuel Tank Instance Type: Status: **EXPIRED** FS Liquid Fuel Tank Description: 3 of 9 248.1 315.0 1028119 ONTARIO LIMITED **EXP** 28 408 YORK RD **GUELPH ON N1E 3H5** TSSA Program Area: Maximum Hazard Rank: Federal Device: Type: Capacity: **Corrosion Protection:** Tank Material: Tank Type: Expire Date: Instance ID: 39458 10771980 Instance Number: FS Liquid Fuel Tank Instance Type: Status: **EXPIRED** Description: FS Liquid Fuel Tank 4 of 9 248.1 315.0 SHAMLOW SERVICE O/A GAS STN 28 **FST** 408 YORK RD **GUELPH ON N1E 3H5** License Issue Date: Tank Status: Tank Status As Of: June 2010 Operation Type: Retail Fuel Outlet Facility Type: FS GASOLINE STATION - FULL SERVE --- Details ---Status: Active Capacity (L): 22730 Year of Installation: 1990 **Corrosion Protection: Fiberglass** Liquid Fuel Single Wall UST - Gasoline Tank Fuel Type:

+ Status: Active
Capacity (L): 31822
Year of Installation: 1990
Corrosion Protection: Fiberglass

| Мар Кеу                                  | Number of<br>Records | Distance<br>m                 | Elevation<br>m      | Site  | DB         |
|--|----------------------|-------------------------------|---------------------|---|------------|
| Tank Fue                                 | l Type:              | Liquid Fuel Sin               | gle Wall UST - Ga   | soline  |            |
| 28                                       | 5 of 9               | 248.1                         | 315.0               | SHAMLOW SERVICE O/A GAS STN<br>408 YORK RD<br>GUELPH ON N1E 3H5 | <u>FST</u> |
| License Iss                              |                      |                               |                     | Tank Status:  |            |
| Tank Statu<br>Facility Typ               |                      | uary 2010<br>GASOLINE STATIOI | N - FULL SERVE      | Operation Type: Retail Fuel Outlet                              |            |
| Details -                                |                      |                               |                     |   |            |
| Status:                                  |                      | Active                        |                     |   |            |
| Capacity                                 | (L):                 | 22730                         |                     |   |            |
| Year of In                               | nstallation:         | 1990                          |                     |   |            |
| Corrosio                                 | n Protection:        | Fiberglass                    |                     |   |            |
| Tank Fue<br>+                            | l Type:              | Liquid Fuel Sin               | gle Wall UST - Ga   | soline  |            |
| +<br>Status:                             |                      | Active                        |                     |   |            |
| Capacity                                 | <i>(1)</i> :         | 31822                         |                     |   |            |
|  | (L).<br>istallation: | 1990                          |                     |   |            |
|  |                      | Fiberglass                    |                     |   |            |
| Corrosion Protection:<br>Tank Fuel Type: |                      | Liquid Fuel Sin               |                     |   |            |
| 28                                       | 6 of 9               | 248.1                         | 315.0               | 1028119 ONTARIO LIMITED<br>408 YORK RD<br>GUELPH ON N1E 3H5     | <u>PRT</u> |
|  |                      |                               |                     |   |            |
| Location IE                              | D:                   | 5683                          |                     |   |            |
| Type:                                    |                      | retail                        |                     |   |            |
| Expiry Date                              |                      | 1995-01-31                    |                     |   |            |
| Capacity (L                              | _) <i>:</i>          | 2640                          |                     |   |            |
| Licence #:                               |                      | 0076410422                    |                     |   |            |
| 28                                       | 7 of 9               | 248.1                         | 315.0               | SAMS AUTO SERVICE LTD<br>408 YORK RD<br>GUELPH ON N1E 3H5       | <u>PRT</u> |
|  | <b>.</b>             | EC02                          |                     |   |            |
| Location ID                              | <i>)</i> .           | 5683                          |                     |   |            |
| Type:                                    |                      | retail                        |                     |   |            |
| Expiry Date                              |                      | 1995-06-30                    |                     |   |            |
| Capacity (L                              | -):                  | 54552                         |                     |   |            |
| Licence #:                               |                      | 0076421957                    |                     |   |            |
| 28                                       | 8 of 9               | 248.1                         | 315.0               | HILTON GROUP GAS<br>408 YORK RD<br>GUELPH ON N1E 3H5            | <u>RST</u> |
| Facility:<br>Descriptior                 | 1:                   | Service Station               | s-Gasoline, Oil & N | Natural Gas   |            |
| 28                                       | 9 of 9               | 248.1                         | 315.0               | CANGO PETROLEUMS LTD.<br>408 YORK RD. SERVICE STATION           | <u>SPL</u> |
|  |                      |                               |                     | GUELPH CITY ON N1E 3H5  |            |

| Map Key                                    | Number of<br>Records | Distance<br>m   | Elevation<br>m | Site   | DB                |  |  |
|--|----------------------|---|----------------|--|-------------------|--|--|
| Incident Dt:                               |                      | 6/1/1989  |                |  |                   |  |  |
| MOE Reported Dt:                           |                      | 6/2/1989  |                |  |                   |  |  |
| Contamina                                  |                      |   |                |  |                   |  |  |
|  | nt Quantity:         | 044100.0504   | 071            | NOTY CASCUME TO COOLING BUE                          | TO TANK OVEREI OW |  |  |
| Incident Summary:                          |                      | CANGO SERV. STNUNKNOWNQTY. GASOLINE TO GROUND DUE TO TANK OVERFLOW. |                |  |                   |  |  |
| Incident Cause:                            |                      | CONTAINER OVERFLOW  |                |  |                   |  |  |
| Incident Reason:                           |                      | UNKNOWN   |                |  |                   |  |  |
| Nature of Impact:                          |                      | LAND  |                |  |                   |  |  |
| Receiving Medium:<br>Environmental Impact: |                      | LAND  |                |  |                   |  |  |
| 29   | 1 of 1               | 248.5   | 315.0          | LEWIS UPHOLSTERY<br>404 YORK RD<br>GUELPH ON N1E 3H4 | <u>SCT</u>        |  |  |
| Established:                               |                      | 1972  |                |  |                   |  |  |
| Plant Size (ft²):                          |                      | 0   |                |  |                   |  |  |
| Employment:                                |                      | 3   |                |  |                   |  |  |
| Details<br>SIC/NAICS Code:<br>Description: |                      | 2512<br>WOOD HOUSEHOLD FURNITURE, UPHOLSTERED                       |                |  |                   |  |  |

# Unplottable Report

Site: Guelph, City of

Guelph ON

Database: EBR

 Year:
 2010

 EBR Registry No.:
 011-1110

 Ministry Ref. No.:
 23-3888-042A

 Type:
 Instrument Proposal

Instrument Type: (Planning Act s17(34)&s21) - Approval of an Official Plan Amendment

Proposal Date: September 16, 2010

Location: This amendment applies to the entire City of Guelph.

Proponent Address: 1 Carden Street Guelph Ontario Canada N1H 3A1

Site: Guelph, City of

Guelph ON

Database: EBR

 Year:
 2009

 EBR Registry No.:
 010-7185

Ministry Ref. No.: 23-OP-3888-09001
Type: Instrument Proposal

Instrument Type: (Planning Act s17(34)&s21) - Approval of an Official Plan Amendment

Proposal Date: July 08, 2009

Location: The amendment applies to the entire City of Guelph Proponent Address: 1 Carden Street Guelph Ontario Canada N1H 3A1

Site: The Corporation of the City of Guelph

Alice St Guelph ON

Database: ECA

 CofA Number:
 7480-8WAKYQ

 Date:
 7/19/2012

 Status:
 Approved

Project Type: Municipal and Private Sewage

Site: Double R. Developments

DIVISION B PART LOT 2, CONCESSION 3E GUELPH ON

Database: GEN

**SIC Code:** 231410

SIC Description:

Generator #: ON1560500 Approval Yrs: 2011

--- Details ---

Waste Code: 252

Waste Description: WASTE OILS & LUBRICANTS

+

Waste Code: 251

Waste Description: OIL SKIMMINGS & SLUDGES

## Appendix: Database Descriptions

Ecolog Environmental Risk Information Services Ltd can search the following databases. The extent of Historical information varies with each database and current information is determined by what is publicity available to Ecolog 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:

Up to Sept 2002

Provincial

**AAGR** 

The MAAP Program maintains a database of all 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.

#### Aggregate Inventory:

Up to Aug 2012

Provincial

**AGR** 

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. Please note that the database is only referenced by lot\concession and city/town location. The database provides information regarding the registered owner/operator, location, status, licence type, and maximum tonnage.

## **Abandoned Mine Information System:**

1800-Feb 2013

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.

### Anderson's Waste Disposal Sites:

1860s-Present

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 authoritive. The information was collected for research purposes only.

### **Automobile Wrecking & Supplies:**

2001-Jun 2010

Private

**AUWR** 

This database provides an inventory of all 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.

**Borehole:** 1875-Aug 2011 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.

### Certificates of Approval:

1985-Oct 30, 2011\*

Provincial

CA

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

## **Commercial Fuel Oil Tanks:**

1948-Apr 2013

Provincial

**CFOT** 

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

**Chemical Register:** 

1992, 1999-Jun 2010

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.).

## Inventory of Coal Gasification Plants and Coal Tar

Apr 1987 and Nov 1988\*

Provincial

**COAL** 

Sites:

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.\*

#### **Compliance and Convictions:**

1989-Jun 2013

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.

#### Certificates of Property Use:

1994-Jul 2013

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.

### **Drill Hole Database:**

1886-Jun 2013

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".

## **Environmental Activity and Sector Registry:**

Oct 31, 2011-Jul 2013

Provincial

**EASR** 

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

## **Environmental Registry:**

1994-Jul 2013

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.

#### Environmental Compliance Approval:

Oct 31, 2011-Jul 2013

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 CofA's prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

#### **Environmental Effects Monitoring:**

1992-2007

Eederal

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.

#### **ERIS Historical Searches:**

1999-Mar 2013

Private

EHS

EcoLog 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.

## **Environmental Issues Inventory System:**

1992-2001\*

Federal

EIIS

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

#### List of TSSA Expired Facilities:

Current to Feb 2012

Provincial

XP

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

Federal Convictions:

1988-Jun 2007\*

Federal

**FCON** 

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

#### Contaminated Sites on Federal Land:

June 2000-Jan 2013

Federal

**FCS** 

The Federal Contaminated Sites Inventory includes information on all 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.

#### Fisheries & Oceans Fuel Tanks:

1964-Sept 2003

Federal

**FOFT** 

Fisheries & Oceans Canada maintains an inventory of all 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.

Fuel Storage Tank:

Current to Jun 2011

Provincial

**FST** 

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

Ontario Regulation 347 Waste Generators Summary:

1986-Apr 2012

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.

#### TSSA Historic Incidents:

2006-June 2009

Provincial

HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

#### Indian & Northern Affairs Fuel Tanks:

1950-Aug 2003\*

Federal

<u>IAFT</u>

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of all 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.

TSSA Incidents: June 2009-Apr 2013 Provincial INC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

#### **Landfill Inventory Management Ontario:**

2012

Provincial

<u>LIMO</u>

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.

#### **Canadian Mine Locations:**

1998-2009

Private

**MINE** 

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

<u>Mineral Occurrences:</u> 1846-Apr 2013 Provincial <u>MNR</u>

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 planimetric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

# <u>National Analysis of Trends in Emergencies System</u> 1974-1994\* Federal <u>NATE</u> (NATES):

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.

#### **Non-Compliance Reports:**

1992(water only), 1994-2010

Provincial

**NCPL** 

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

#### National Defence & Canadian Forces Fuel Tanks:

Up to May 2001\*

Federal

JDFT

The Department of National Defence 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.

#### National Defence & Canadian Forces Spills:

Mar 1999-Aug 2010

Federal

**NDSP** 

The Department of National Defence 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.

### National Defence & Canadian Forces Waste Disposal 2001-Apr 2007\*

Federal

<u>NDWD</u>

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.

# <u>National Environmental Emergencies System</u> (NEES):

1974-2003\*

Federal

**NEES** 

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for all 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.

#### National PCB Inventory:

1988-2008\*

Federal

**NPCB** 

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. All federal out-of-service PCB containing equipment and all 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.

#### National Pollutant Release Inventory:

1993-2011

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.

#### Oil and Gas Wells:

1988-Jun 2013

Private

<u>OGW</u>

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.

#### Ontario Oil and Gas Wells:

1800-Jul 2013

Provincial

**OOGW** 

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, well cap date, licence 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.

#### Inventory of PCB Storage Sites:

1987-Oct 2004

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.

<u>Orders:</u> 1994-Jul 2013 Provincial <u>ORD</u>

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.

#### Canadian Pulp and Paper:

1999, 2002, 2004, 2005,

Private

PAP

2009

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.

#### Parks Canada Fuel Storage Tanks:

1920-Jan 2005\*

Federal

**PCFT** 

Canadian Heritage maintains an inventory of all 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.

Pesticide Register:

1988-Jun 2013

Provincial

PES

The Ontario Ministry of Environment maintains a database of all manufacturers and vendors of registered pesticides.

#### TSSA Pipeline Incidents:

June 2009-Mar 2012

Provincial

PINC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

#### Private and Retail Fuel Storage Tanks:

1989-1996\*

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).

Permit to Take Water:

1994-Jul 2013

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.

#### Ontario Regulation 347 Waste Receivers Summary:

1986-2011

Provincial

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.

#### **Record of Site Condition:**

1997-Sept 2001, Oct 2004-

Provincial

**RSC** 

Jun 2013

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).

#### Retail Fuel Storage Tanks:

1999-Jun 2010

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.

#### Scott's Manufacturing Directory:

1992-Mar 2011

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.

1988-Aug 2012 **Ontario Spills:** 

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.

Wastewater Discharger Registration Database:

Provincial

Provincial

**SRDS** 

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

#### Anderson's Storage Tanks:

1915-1953\*

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.

#### Transport Canada Fuel Storage Tanks:

1970-Mar 2007

With the provinces of BC, MB, NB, NF, ON, PE, and QC; Transport Canada currently owns and operates 90 fuel storage tanks. Our inventory provides information on the site name, location, tank age, capacity and fuel type.

# TSSA Variances for Abandonment of Underground Storage Tanks:

Current to Jun 2013

Provincial

**VAR** 

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

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

1970-Jul 2013

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.

#### <u>Waste Disposal Sites - MOE 1991 Historical Approval</u> Up to Oct 1990\* 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.

#### Water Well Information System:

1955-May 2013

Provincial

**WWIS** 

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

### **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.

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

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

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

'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.

Order #: 20131028018

<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 upside down 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 were included as reference.

## **APPENDIX F**

**CHRONOLOGICAL EVENTS** 

| Doc.<br>No. | DATE                                       | DESCRIPTION   |  |
|-------------|--|---|--|
| 1.          | 11/1990                                    | IMICO Site Plan   |  |
| 2.          | 06/10/1991                                 | Proctor & Redfern Limited Environmental Investigation – International Malleable Iron Company  |  |
| 3           | 04/10/1992                                 | Transfer from International Malleable Iron Limited to John H. Long, Instrument Number 663427.   |  |
| n/a         | 4/15/1992                                  | Notice of Violation served (Various Infractions)  |  |
| 4           | 05/22/1992                                 | Order of Property Standards Officer issued and registered on title  |  |
| 4a          | 11/1/1993                                  | Order of Property Standards Officer,.   |  |
| 5           | 12/31/1993                                 | Transfer from John H. Long to The Assembly of the Church of the Universe, Instrument Number 706184.   |  |
| 6.          | 07/14/1994                                 | MOE Order issued. Issued to 6 recipients. Requires a Remedial Work Plan.  |  |
| 7.          | 02/14/1995                                 | Environmental Appeal Board (The Assembly of the Church of the Universe v. Director, West Central Region)  |  |
| 8.          | 03/20/1995                                 | MOEE letter: Proposed Plan for Demolition of Buildings IMICO.   |  |
| 9.          | 02/05/1992                                 | MOEE letter: Requesting status of demolition plan and whether Council has agreed to proceed.  |  |
| 10.         | Jun/06,07,08,<br>12,13,14,15,<br>& 28/1995 | Environmental Appeal Board – Church of the Universe v. Director, Ministry of Environment and Energy   |  |
| 11.         | 03/01/1996                                 | MOE letter to the City to answer the City's question concerning the level of site investigation and clean-up that would be required if the City became the owner of the site.   |  |
| 12.         | 03/04/1996                                 | MOE letter to the City: Phytotoxicology Survey in the Vicinity of the Former MIICO  |  |
| 13.         | 05/14/1996                                 | MOE letter: regarding final copy of environmental clean-up requirements.  |  |
| 14.         | 05/28/1997                                 | Notice of Vesting/Statutory Declaration under Municipal Sales Tax Act, Instrument Number 774461.  |  |
| n/a         | 12/1997                                    | City gains ownership of property following unsuccessfully attempt to sell it for unpaid taxes.  |  |
| n/a         | 01/20/1998                                 | City has vacant possession of property. Site security and patrols begin.  |  |
| 15.         | 02/09/1998                                 | Status report to Planning, Works and Environment Committee - "Staff be authorized to proceed with a site management plan" - Staff developed Strategy for Site Management Plan: to manage the site in a responsible but cost effective manner to prevent adverse environmental effects and to minimize unsafe conditions on site; these goals will be achieved through a phased approach consistent with reducing uncertainties and impediments to reuse or redevelopment of the site; if, at any time a suitable purchase or partner comes forward, the City may seek to achieve these same site management goals through appropriate agreements. |  |
| 16.         | 03/5/1998                                  | MOE letter RE: City responsibilities to Director's Order  |  |

| Doc.<br>No. | DATE       | DESCRIPTION   |  |
|-------------|------------|---|--|
| 17.         | 03/23/1998 | City submits to MOE: 1. Preliminary Site Management Plan – City requests approval   |  |
| 18.         | 04/1998    | Public Notices: That the City will begin site investigations and evaluations on the IMICO site starting the week of April 27, 1998.   |  |
| 19.         | 04/21/1998 | City letter to MOE: Advising that Gartner Lee appointed for preliminary site investigations and Proctor and Redfern appointed for site inspection and engineering evaluations.  |  |
| 20.         | 04/22/1998 | Moe letter from John Cooke requesting further information following City submission of Preliminary Site Management Plan   |  |
| 21.         | 04/23/1998 | Council Resolution: Staff were directed to prepare a report with respect to the process relating to the future usage of the IMICO site.   |  |
| 22.         | 04/29/1998 | City letter from LEP requesting that the City's holding of reserves is sufficient to satisfy section 2.1.16 of the Order.   |  |
| 23.         | 05/1/1998  | MOE letter to City to approve Preliminary Site Management Plan as submitted.  |  |
| 24.         | 05/22/1998 | City submits to MOE a Plan to demolish Unsafe Buildings as recommended by Proctor and Redfern Limited during their engineering evaluations  |  |
| 25.         | 05/28/1998 | Letter MOE to LEP regarding request to provide financial assurance - financial assurance not required at this time.   |  |
| 26.         | 06/12/1998 | Gartner Lee: Geotechnical Investigation letter.   |  |
| 27.         | 08/4/1998  | Status report to Planning, Works and Environment Committee - "Staff be authorized to proceed with site management plan". This stage estimated at \$800,000.00   |  |
| 28.         | 08/12/1998 | Final Draft Gartner Lee Limited Report – Hydrogeologic Site Investigations – northeast corner has most highly concentrated contaminants – some off-site contaminants detected along north-east perimeter – low concentrations of Total Petroleum Hydrocarbons (TPH) occur over most of the site – levels of contaminants along northeast and southeast perimeters should be investigated. |  |
| 29          | 07/1998    | Final Procter & Redfern Limited Report - Site Inspections and Engineering Evaluations – systematic inventory of water materials – safety issues of fire damaged structures – recommends demolition of remaining structures including waste separation, management, and disposal.  |  |
| n/a.        | 09/3/1998  | Certificate of Prohibition – prohibiting The Assembly of the Church of the Universe from dealing with the property – Instrument Number 799157.  |  |
| 30.         | 09/3/1998  | City submits to MOE an Interim Site Management Plan.  |  |
| 31.         | 09/14/1998 | The IMICO Site Study –Final Planning Report.  |  |
| 32.         | 09/28/1998 | Status report to Planning, Works and Environment Committee on demo and further investigation.   |  |
| 33.         | 11/4/1998  | MOE letter to City RE: Review and further clarification of Intermediate Site Man. Plan submitted September 3, 1998.   |  |
| 34.         | 11/25/1998 | Proctor & Redfern: Response to MOE letter of November 4/98 to address issues raised.  |  |

| Doc.<br>No. | DATE       | DESCRIPTION   |
|-------------|------------|---|
| 35.         | 12/7/1998  | City submits to MOE our Progress Report #1 ending October 1998.   |
| 36.         | 12/08/1998 | Gartner Lee Limited letter to The City: Additional Investigation Activities – Former IMICO Foundry Site.  |
| 37.         | 12/31/1998 | Gartner Lee: Oil Recovery, Vicinity of OW1  |
| 38.         | 01/6/1999  | Letter from John Cooke re: our submitted Interim Site Management Plan requesting clarification on PCB clean-up, storm water management.   |
| n/a         | 01/11/1999 | Gartner Lee Limited Study – Site Hydrogeologic Study (to investigate potential of off-site contamination and remedial measures) – Exceedances of Total Petroleum Hydrocarbons (TPH) and Poly Aromatic Hydrocarbons (PAH) at easterly boundary and have potential of migrate through ground water – low concentrations of TPH over most of site with localized exceedences in northeast quadrant – exceedances in metals (zinc & Lead) in ground water in northeast quadrant and southeast and west boundaries – localized exceedance of chlorinated organic compound (Trichlorethane and Trichloroethylene) on the west boundary requires soil gas testing – one well in northeast corner has layer of fuel oil in upper bedrock and should be extracted.   |
| 39.         | 01/11/1999 | Status report to Planning, Works and Environment Committee on Demo Contract 98-19 and further geotech work to be completed.   |
| 40.         | 01/13/1999 | Joseph Young of Proctor & Redfern Limited letter to the City addressing outstanding issues raised in the MOE's letter dated January 6, 1999.  |
| 41.         | 01/26/1999 | City submits letter to MOE responding to request for clarification of information from MOE letter dated January 6, 1999.  |
| 42.         | 03/01/1999 | MOE letter to the City acknowledges receipt of the City's Generator Registration report dated February 1, 1999 (ON0349018).   |
| 43.         | 03/8/1999  | Report - Supplementary Hydrogeological Investigation by Gartner Lee Ltd. Copied to MOE.   |
| 44.         | 03/22/1999 | Status report to Planning, Works and Environment Committee – "staff be authorized to proceed with the next stage of the Site Management Plan" – excavation and disposal off-site of contaminated soil and fill materials from northeast corner (5,400 cubic metres, \$710,000) – install one or more recovery wells into the bedrock in northeast to skim and pump free phase oil below the water table (est. \$55,000) – Three year monitoring program for recovery wells (\$90,000). – contaminants (TPH heavy oils, benzene, arsenic, metals) exceed guidelines in groundwater monitoring wells (maintenance garage, storage fuel tanks, annealing oven, mechanical shop, electrical shop) and must be monitored on quarterly basis (\$90,000/year) – investigate TCE (trichloroethylene) detected in wells on eastern boundary by installing additional wells and monitor (\$17,000). |
| 45.         | 03/29/1999 | City letter to MOE forwarding the Supplemental Hydrogeologic Investigation Report on the IMICO site.  |
| 46.         | 03/31/1999 | John Cooke (MOE) letter to the City; with comments concerning the supplemental investigation and request for the City to proceed to implement the proposed remedial measures as quickly as possible.  |

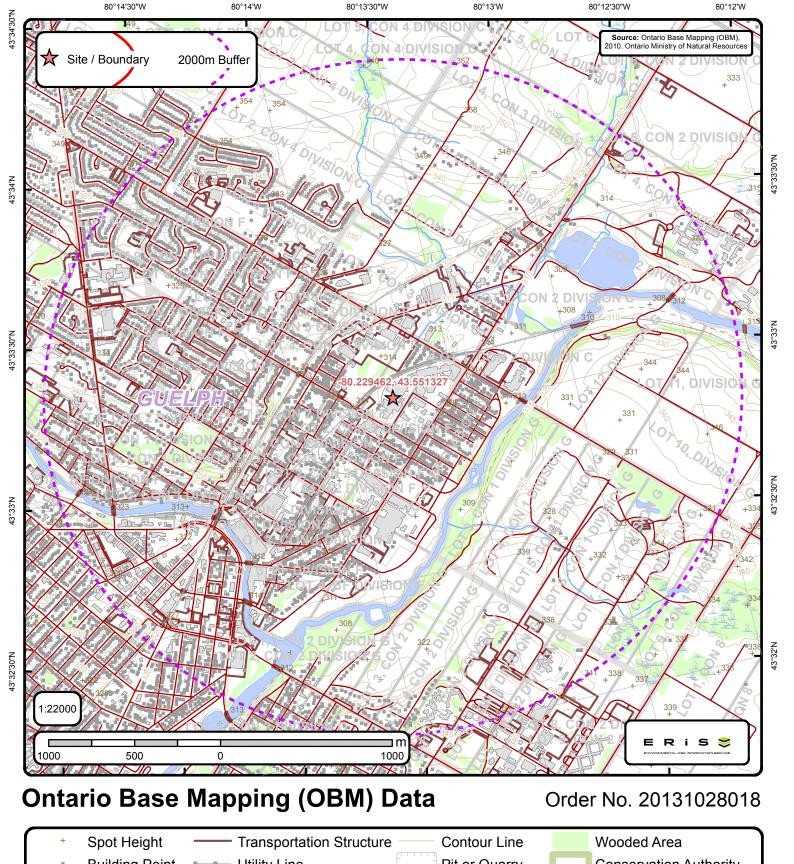
| Doc.<br>No. | DATE       | DESCRIPTION  |  |
|-------------|------------|--|--|
| 47.         | 04/14/1999 | Gartner Lee Limited letter to the City re: Soil Excavation and Off-Site Disposal –Summary of Proposed Remedial Action Northeast Portion of Former IMICO Foundry Site   |  |
| 48.         | 04/16/1999 | Gartner Lee Limited letter to the City re: Groundwater Monitoring Program – Former IMICO Foundry Site. (Summary)   |  |
| 49.         | 04/26/1999 | City response letter to MOE letter of March 31, 1999. Requesting further info regarding submitted Hydrogeologic Report by Gartner Lee Limited dated March 1999.  |  |
| 50.         | 05/03/1999 | Gartner Lee letter to City: Soil Excavation and Off-Site Disposal – Summary of Proposed Remedial Action.   |  |
| 51.         | 05/17/1999 | Gartner Lee Letter: re: Well Decommissioning of OW1, OW1-II, OW20 and OW21.  |  |
| 52.         | 05/20/1999 | City submits to MOE: 1. Site Remedial Plan 2. Progress Report #2   |  |
| 53.         | 07/12/1999 | Presentation Notes – Option One, Restore Site for Industrial Use 1. remove or manage contaminated soils; 2) Long term site monitoring. Option Two, Restore Site for Residential Use 1. Remove contaminated soils; 2) remove or manage foundry sands; 3) remove concrete floor and foundations; 4) Long term site monitoring. |  |
| 54.         | 07/12/1999 | Committee Report: "staff be authorized to proceed to a Public Meeting with the staff recommended preferred land use on the former IMICO property being industrial/commercial".   |  |
| 55.         | 09/01/1999 | Gartner Lee: supplemental Well Installation Program, July 1999.  |  |
| 56.         | 10/7/1999  | Earth-Tech Inc. submits final report of Demolition and Waste Removal Report following completion of Contract 98-19.  |  |
| 57.         | 10/07/1999 | Gartner Lee: Routine Groundwater Monitoring – April and July 1999.   |  |
| 58.         | 11/4/1999  | City submits to MOE, Progress Report #3 including a copy of the report Demolition and Waste Removal Report by Earth Tech Inc.  |  |
| 59.         | 01/05/2000 | Progress Report-Site Remedial Plan, Former IMICO Site, 200 Beverley St.  |  |
| 60.         | 03/22/2000 | Routine Groundwater Monitoring –Former IMICO Site<br>(November/December 1999 Ground Monitoring Event   |  |
| 61.         | 04/10/2000 | Gartner Lee: Review Comments – Site Remedial Plan Progress Report.   |  |
| n/a         | 04/17/2000 | City submits to MOE, Progress Report #4.   |  |
| n/a         | 05/29/2000 | Report from Gartner-Lee Ltd.to City RE: Geophysical Survey Report for area where suspected buried tanks and structures were.   |  |
| 62.         | 07/07/2000 | Council Resolution: Staff were directed to report back to Council in two weeks with additional information.  |  |
| 63.         | 07/18/2000 | Gartner Lee: Intrusive (Test Pit) Investigation.   |  |
| 64          | 07/21/2000 | Council Resolution: "That staff be directed to proceed to hold a public meeting on the IMICO site and report back to Council on input received from the public."   |  |

| Doc.<br>No. | DATE       | DESCRIPTION   |  |
|-------------|------------|---|--|
| 65.         | 07/31/2000 | City submits letter to MOE RE: Completion of MOE Director's Order requesting MOE to remove order from the site.   |  |
| 66.         | 10/19/2000 | Gartner Lee: Routine Groundwater Monitoring – May 2000.   |  |
| 67.         | 12/21/2000 | Gartner Lee: Quarterly Groundwater Monitoring Program – September 2000 event  |  |
| 68.         | 01/19/2001 | City submits to MOE, Progress Report #5.  |  |
| 69.         | 06/15/2001 | City submits letter to MOE RE: request response to Progress Reports and letter of July 15, 2000 requesting MOE release Order.   |  |
| 70.         | 06/25/2001 | MOE responds to City request of July 15, 2000 - requests Remedial Plan and indicates premature to release Order.  |  |
| 71.         | 07/20/2001 | Gartner Lee: Semi-Annual Groundwater Monitoring Report – December 2000 and March 2001 events.   |  |
| 72.         | 07/24/2001 | Groundwater Monitoring Report, Gartner Lee  |  |
| 73.         | 07/27/2001 | Oil Recovery Efforts, Gartner Lee   |  |
| 74.         | 08/2001    | Final Site Remedial Plan - IMICO  |  |
| 75.         | 08/23/2001 | City responds to Moe letter dated June 25, 2001, with further clarifications and includes Progress Report #6.   |  |
| 76.         | 10/29/2001 | Letter from MOE acknowledge letter from City of Oct 10, 2001, MOE review in progress.   |  |
| n/a         | 12/4/2001  | Letter from MOE completing review of Progress Report #6.  |  |
| 77.         | 12/27/2001 | Email from Jamie Connelly from MOE to City responding to Progress report #6.  |  |
| 78.         | 01/14/2002 | City's response to meeting with MOE January 4, 2002 with a summary of items resulting from those discussions.   |  |
| 79.         | 01/24/2002 | Gartner Lee: Groundwater Monitoring Report – September and December, 2001.  |  |
| 80.         | 03/6/2002  | Progress Report #7.   |  |
| 81.         | 04/08/2002 | PWE Report: "That the report of the Commissioner of the Environment & Transportation Group dated April 1, 2002 be received as information.  |  |
| 82.         | 04/8/2002  | Public Meeting held at Italian-Canadian Club, Rick Tolkunow, Mike Crechiolo, Thom Kewen, GBF.   |  |
| 83.         | 06/3/2002  | Council Report summarizing Public Meeting and propose: "a process for assessing an appropriate range of Alternative end land uses be developed"   |  |
| 84.         | 06/06/2002 | Council Resolution: That a process for assessing an appropriate range of alternative end land uses, including a mixed use option for the former IMICO be developed by staff, having regard to land use compatibility, transportation and infrastructure criteria. |  |
| 85.         | 08.12/2002 | Council Report: "That the report of the Commissioner of Environment & Transportation Group entitled Former International Malleable Iron Site (IMICO) dated August 12, 2002 be received."  |  |

| Doc.<br>No. | DATE       | DESCRIPTION  |  |
|-------------|------------|--|--|
| 86.         | 08/23/2002 | MOE letter: Review of Response to Comments and Sept/Dec 2001<br>Monitoring Reports.  |  |
| 87.         | 10/28/2002 | Report to Planning, Environment & Transportation Committee. – endorse the proposed process to define a range of land uses for the IMICO site.  |  |
| 88.         | 11/13/2003 | CH2M HILL Technical Memorandum: Summary of Environmental<br>Conditions and Resultant Development Constraints at 200 Beverley Street,<br>Guelph |  |
| 89.         | 02/04/2004 | CH2M HILL Memorandum: Guelph Property Use Study Summary of Short<br>List Options Screening and Proposed Evaluation Criteria                    |  |
| 90.         | 8/2004     | CH2M HILL Scenario Profile Summary: Scenario Profiles 1-4  |  |
| 91.         | 8/2004     | CH2M HILL Summary of Remedial Options for Redevelopment  |  |
| 92.         | 10/29/2004 | Groundwater Monitoring Report, July and September 2004, Gartner Lee<br>Limited   |  |
| 93.         | 9/2005     | Letter from John Cooke at MOE with regard to possible partial removal of Order   |  |
| 94.         | 6/5/2006   | Council Report of June 5, 2006 regarding outcome of Request for Expressions of Interest and proposed work plan                                 |  |

## **APPENDIX G**

**TOPOGRAPHIC MAP** 



**Building Point Utility Line** Pit or Quarry **Conservation Authority** Water Structure Waterbody Conservation Area **Towers** Utility Site Point Drainage Line Feature Wetlands Municipal Park Misc. Line River or Stream Concession Provincial Park Railroads Lots National Park Airports Municipality Roads **Tanks** Nature Reserve Trail **Building to Scale** Land Ownership

## APPENDIX H

MOE FOI REQUEST

| A response has not been received from the MOE at the time of reporting received after reporting will be forwarded to the City of Guelph. | . Any response |
|--|----------------|
|  |                |
|  |                |
|  |                |
|  |                |

**DCS** 

## APPENDIX I

INTERVIEW AND SITE RECONNAISSANCE FORMS

### **DECOMMISSIONING CONSULTING SERVICES**

#### PHASE I ENVIRONMENTAL SITE ASSESSMENT INTERVIEW FORM

| DCS Project Nº: ==01€9 €-∞1  |
|--|
| Client: City of Guelph   |
| Interview Date & Time:   |
| Name(s) of Interviewee(s) & Title:  (Current owner/occupant/other)                       |
| Contact Information:   |
| Interview Method & Location: Telephone   |
| General Site Information   |
| Property Address: 200 Benerley Street, Guelph, ON  |
| Site Description:  former IMICO properly  bound by Gudph Rail to the N, Stevenson Street |
| South to the W Beverley Street to the S  |
| Interview Questions:   |
| 1. How long have you worked/lived at the site?   |
|  |
| 2. What is the site currently used for? What was it used for in the past?                |
| Vacant - preriously iron - jobbing facity, chemical storage                              |
| 3. Was a dry cleaning facility ever present at the site or at adjacent properties?       |
|  |

| 4.   | Was the site ever used as a gasoline service station or for fuel storage or oil and gas refining? |          |  |
|------|---|----------|--|
|      | no - did previously have USTs/AST   |          |  |
| 5.   | Potentially Contaminating Activities  |          |  |
| Item | Column A  |          |  |
| 1.   | Acid and Alkali Manufacturing, Processing and Bulk Storage  | Yes No V |  |
| 2.   | Adhesives and Resins Manufacturing, Processing and Bulk Storage                                   | Yes No 🗸 |  |
| 3.   | Airstrips and Hangars Operation   | Yes No V |  |
| 4.   | Antifreeze and De-icing Manufacturing and Bulk Storage  | Yes No V |  |
| 5.   | Asphalt and Bitumen Manufacturing   | Yes No V |  |
| 6.   | Battery Manufacturing, Recycling and Bulk Storage   | Yes No 🗸 |  |
| 7.   | Boat Manufacturing  | Yes No   |  |
| 8.   | Chemical Manufacturing, Processing and Bulk Storage   | Yes V No |  |
| 9.   | Coal Gasification   | Yes No 🗸 |  |
| 10.  | Commercial Autobody Shops   | Yes No V |  |
| 11.  | Commercial Trucking and Container Terminals   | Yes No 🗸 |  |
| 12.  | Concrete, Cement and Lime Manufacturing   | Yes No V |  |
|      |   |          |  |

| 13. | Cosmetics Manufacturing, Processing and Bulk Storage                                  | Yes No 🗸 |
|-----|---|----------|
| 14. | Crude Oil Refining, Processing and Bulk Storage                                       | Yes No V |
| 15. | Discharge of Brine related to oil and gas production                                  | Yes No   |
| 16. | Drum and Barrel and Tank Reconditioning and Recycling                                 | Yes No   |
| 17. | Dye Manufacturing, Processing and Bulk Storage  | Yes No V |
| 18. | Electricity Generation, Transformation and Power Stations                             | Yes No 🗸 |
| 19. | Electronic and Computer Equipment Manufacturing                                       | Yes No V |
| 20. | Explosives and Ammunition Manufacturing, Production and Bulk Storage                  | Yes No 🗸 |
| 21. | Explosives and Firing Range   | Yes No 🗸 |
| 22. | Fertilizer Manufacturing, Processing and Bulk Storage                                 | Yes No 🗸 |
| 23. | Fire Retardant Manufacturing, Processing and Bulk Storage                             | Yes No V |
| 24. | Fire Training   | Yes No 🗸 |
| 25. | Flocculants Manufacturing, Processing and Bulk Storage                                | Yes No 🗸 |
| 26. | Foam and Expanded Foam Manufacturing and Processing                                   | Yes No 🗸 |
| 27. | Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles | Yes No 🗸 |

| 28. | Gasoline and Associated Products Storage in Fixed Tanks  | Yes No No |
|-----|--|-----------|
| 29. | Glass Manufacturing  | Yes No V  |
| 30. | Importation of Fill Material of Unknown Quality  | Yes No    |
| 31. | Ink Manufacturing, Processing and Bulk Storage   | Yes No 🗸  |
| 32. | Iron and Steel Manufacturing and Processing  | Yes No    |
| 33. | Metal Treatment, Coating, Plating and Finishing  | Yes No    |
| 34. | Metal Fabrication  | Yes No V  |
| 35. | Mining, Smelting and Refining; Ore Processing; Tailings Storage  | Yes No 🗸  |
| 36. | Oil Production   | Yes No    |
| 37. | Operation of Dry Cleaning Equipment (where chemicals are used)   | Yes No    |
| 38. | Ordnance Use   | Yes No V  |
| 39. | Paints Manufacturing, Processing and Bulk Storage  | Yes No V  |
| 40. | Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications | Yes No    |
| 41. | Petroleum-derived Gas Refining, Manufacturing, Processing and Bulk Storage   | Yes No    |
| 42. | Pharmaceutical Manufacturing and Processing  | Yes No V  |

| 43. | Plastics (including Fibreglass) Manufacturing and Processing   | Yes No V  |
|-----|--|-----------|
| 44. | Port Activities, including Operation and Maintenance of Wharves and Docks  | Yes No 🗸  |
| 45. | Pulp, Paper and Paperboard Manufacturing and Processing  | Yes No 🗸  |
| 46. | Rail Yards, Tracks and Spurs   | Yes No 🗸  |
| 47. | Rubber Manufacturing and Processing  | Yes No    |
| 48. | Salt Manufacturing, Processing and Bulk Storage  | Yes No    |
| 49. | Salvage Yard, including automobile wrecking  | Yes No 🗸  |
| 50. | Soap and Detergent Manufacturing, Processing and Bulk Storage  | Yes No    |
| 51. | Solvent Manufacturing, Processing and Bulk Storage   | Yes V No  |
| 52. | Storage, maintenance, fuelling and repair of equipment, vehicles, and material used to maintain transportation systems | Yes No 🗸  |
| 53. | Tannery  | Yes No 🗸  |
| 54. | Textile Manufacturing and Processing   | Yes No 🗸  |
| 55. | Transformer Manufacturing, Processing and Use  | Yes No No |
| 56. | Treatment of Sewage equal to or greater than 10,000 litres per day   | Yes No    |
| 57. | Vehicles and Associated Parts Manufacturing  | Yes No    |

| 58. | Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners  Yes No |
|-----|--|
| 59. | Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products  Yes No  |
| 6.  | When was the site first developed?  Approximately 1912   |
| 7.  | How old is/are the building(s) or other structures on the site?  |
|     | • Have there been any additions or major renovations?  |
| 3.  | How are the buildings heated and cooled? How were they heated/cooled previously?   |
| ).  | Are any ASTs or USTs situated on the site?   |
|     | • Quantity:  |
|     | Location:  |
|     | Contents:  |
| 0.  | Have any ASTs or USTs been removed from the site? If so, was any soil verification testing carried out?  |
|     | Yes yes  |
| 1.  | Are you aware of any leaks or spills associated with the ASTs/USTs or on the overall site?   |
|     | Yes  |

|         | e pesticides, herbicides, fungicides or anti-fouling agents ever used at the site?   |
|---------|--|
|         | radioactive materials ever been used or stored at the site?  |
|         | salt ever been stored, used, handled or disposed of on-site?   |
| site?   | motor vehicle maintenance, operation or repair activities ever been carried out  |
| site?   | bage or other waste materials, such as old cars, scrap metal or car batteries on the series of the s |
|         | here any easements on the property?  |
| Have    | ny chemicals stored on the property? Where? Is secondary containment used? any leaks or spills occurred?   |
| What    | is the source of potable water at the site? (i.e. municipal or water wells)  |
|         | If water wells, how are they constructed? (i.e. bored, dug, drilled)   |
|         | nere any drinking or monitoring wells present on the property, either operations   |
| 11011-0 | perational? If so, where are they located?   |

| -        | otable water wells are present, what type of treatment system is used?                        |
|----------|---|
|          | any underground utilities present at the site?  |
| <i>_</i> | any sumps or oil/water separators present on the site?  |
| Are      | you aware of any previous environmental investigations on the site?                           |
|          | or were any hazardous materials used or stored on the site?                                   |
|          | y waste generated at the site?  yes', how is waste removed from the site?                     |
| <u> </u> | PCB-containing equipment was trucked to licenced facility                                     |
| the p    | you aware of the presence of asbestos, lead, mould or other designated substances on roperty? |
|          | Has a designated substances survey been carried out previously for the site?                  |
| •        | Has any abatement work been conducted. If so what was the outcome?                            |
|          | y hydraulic equipment (hoists, lifts, etc.) present on the property?                          |
| ——Are a  | any septic tanks situated on the site?  |
| no       |   |

| 31.     |               | ever stored on the site?          |       |     |
|---------|---------------|-----------------------------------|-------|-----|
|         | <u> </u>      |                                   |       |     |
| 32.     | -             | terns on the site to store water? |       |     |
|         |               |                                   |       |     |
| 33.     |               | nds or watercourses situated on   |       | ty? |
|         |               |                                   |       |     |
| Addit   | ional Informa | tion:                             |       |     |
|         |               |                                   |       |     |
|         |               |                                   |       |     |
|         |               |                                   |       |     |
|         |               |                                   |       |     |
|         |               |                                   |       |     |
|         |               |                                   |       |     |
|         |               |                                   |       |     |
|         |               |                                   |       |     |
|         |               |                                   |       |     |
| Intervi | iewer:        | Tu-Anh Nguyen                     | Sign: |     |
|         |               | -                                 |       | ,   |
| Qualif  | ied Person:   |                                   | Sign: |     |
|         |               |                                   |       |     |
|         |               |                                   | Date: |     |

This form is prepared in accordance with O. Reg. 153/04 for a Phase I Environmental Site Assessment.

### **DECOMMISSIONING CONSULTING SERVICES**

### PHASE I ENVIRONMENTAL SITE ASSESSMENT CHECKLIST

|                                     |   | Items needed:                                |
|-------------------------------------|---|--|
| DCS PROJECT Nº:                     | 701996-001                                | • flashlight                                 |
|                                     |   | • screwdriver/crowbar                        |
| CLIENT:                             | City of Guelph                            | • camera + film                              |
|                                     |   | • site plan                                  |
| SITE INSPECTION DATE:               | 7 November 2013                           | • tape measure                               |
|                                     |   | <ul><li>sample bags/jars</li></ul>           |
| DCS INSPECTION STAFF:               |   | <ul> <li>historical plans showing</li> </ul> |
|                                     | Tu-Anh Nguyen                             | areas of concern                             |
|                                     |   |  |
| INTERVIEW/CONTACT                   |   |  |
| NAME, TITLE:                        | Grant Ferguson                            |  |
|                                     |   | -  |
|                                     |   |  |
| 1.0 GENERAL SITE INFORM             | MATION                                    |  |
|                                     |   |  |
| Property Address:                   | 200 Boverley Street, Guel                 | ph, ON                                       |
|                                     |   |  |
| Site Description:                   | racent property, former                   | alu  |
| •                                   | races property, torme                     | THE PARTED                                   |
|                                     |   |  |
| -                                   | (r - 10 - 1                               |  |
| NOTE: Note presence of light standa | ards, navigation lights, concrete pads, r | ramps, etc.                                  |
|                                     |   |  |
| Topography                          | fiat                                      |  |
| -                                   |   |  |
| Area of Property:                   | ~ 53 coo <sup>2</sup>                     |  |
| -                                   |   |  |
| Site Plans / Building Plans         | no building                               |  |
| <u>-</u>                            |   |  |

| 2.0 \BUILDINGS                                 |   |                   |
|--|---|-------------------|
|  |   |                   |
| 2.1 BUILDING DESCRIPTION                       |   |                   |
| No. of Buildings on Site:                      |   |                   |
|  |   |                   |
|  |   |                   |
| Date(s) of Construction.                       |   |                   |
|  |   |                   |
| Size of Buildings:                             |   |                   |
|  |   |                   |
| No. of Floors:                                 |   |                   |
|  |   |                   |
| T . 10 F                                       |   |                   |
| Total Square Footage:                          |   |                   |
| ,  |   |                   |
| Building Construction:                         |   |                   |
| zanamg construction                            |   |                   |
|  |   |                   |
| Type of Materials:                             |   |                   |
|  |   |                   |
|  |   |                   |
| Heating System(s):                             |   |                   |
| (gas/electric/fuel oil)                        |   |                   |
|  |   |                   |
| Boiler Room?                                   | Y | N                 |
| Dataila of ann Additions on Maion              |   |                   |
| Details of any Additions or Major Renovations: |   |                   |
| (dates)  |   |                   |
| (44)   |   |                   |
|  |   |                   |
|  |   |                   |
|  |   |                   |
|  |   |                   |
|  |   | $\overline{\ \ }$ |
|  |   |                   |
|  |   |                   |
|  |   |                   |

| TENA | NTS                                   |                  |
|------|---------------------------------------|------------------|
| (1)  | Company Name:                         | John H. Long     |
|      | Date of Occupancy:                    | 1992 - 1993      |
|      | Type of business activity:            | chemical storage |
|      |                                       |                  |
|      |                                       |                  |
|      | Descriptions of processes/operations: | chemical storage |
|      |                                       |                  |
|      |                                       |                  |
|      |                                       |                  |
| (2)  | Company Name:                         |                  |
|      | Date of Occupancy:                    |                  |
|      | Type of business activity:            |                  |
|      |                                       |                  |
|      |                                       |                  |
|      | Descriptions of processes/operations: |                  |
|      |                                       |                  |
|      |                                       |                  |
|      |                                       |                  |

2.2

| 2.3 ADJACENT PROPERTIES  | Monary                                    |
|--|---|
| Uses of Adjacent Properties:   | NORTH                                     |
| (List occupants, type of   | Guelph Rail Line +                        |
| business activity and location in                                    |   |
| relation to the subject  | chemical bulk storage                     |
| site.)   |   |
|  | SOUTH Beverley Street, mixed use:         |
|  | residential, commercial, light industrial |
|  | EAST                                      |
|  | chemical bulk storage + Guelph Rail Line  |
|  | WEST                                      |
|  | Sterenson Street South, light industrial  |
| History of adjacent land uses?                                       |   |
|  |   |
| Environmental Concerns on Adjacent Properties: (e.g.,                | gas station on York Road                  |
| industrial operations, gas stations, USTs, waste storage,            |   |
| etc.)  |   |
| (If concerns exist, identify   |   |
| direction and distance from the                                      |   |
| subject site.)   |   |
| •  |   |
| •  |   |
|  |   |
| 2.4 FILL DEPOSITS  | Ŷ N                                       |
| Any evidence of fill materials on or adjacent to the site? (based on | pileds of soil - dirt bike tracks         |
| elevation of the site in relation to                                 |   |
| surrounding areas) Describe  |   |
| location, thickness, material type.                                  |   |

| 3.0 FACILITY AUDIT              |   |
|---------------------------------|---|
| 3.1 ASBESTOS                    | Note presence of and general condition of the following applications. |
| Friable Materials:              |   |
| • Pipe Insulation:              |   |
|                                 |   |
|                                 |   |
| Tank Insulation:                |   |
|                                 |   |
|                                 |   |
| Duct and Air Handling Unit      |   |
| Insulation:                     |   |
|                                 |   |
|                                 |   |
| • Sprayed-on Fireproofing:      |   |
| (Check perimeter beams and      |   |
| immediately under Penthouse) \  | \ <u> </u>  |
|                                 | <del>\</del>  |
| Acoustic/Texture Spray:         |   |
| (interior/exterior)             |   |
| (interior/exterior)             |   |
|                                 |   |
| If friable ACM is present:      |   |
| • Is there an existing asbestos | YN  |
| survey report?                  |   |
| survey report:                  |   |
| Non-friable Materials:          |   |
| Cement Board (Transite):        |   |
| <b></b>                         |   |
|                                 |   |
| Vinyl Floor Tile or Sheet       |   |
| Flooring:                       |   |
|                                 |   |
|                                 |   |
| • Ceiling Tile:                 |   |
|                                 |   |
|                                 |   |
| • Cement Pipe (Roof Drains):    |   |
|                                 |   |
|                                 |   |
| • Other:                        |   |

# 3.2 **PCBs** Descriptions of interior lighting: (include approximate number, location) Ballast nameplate information: (manufacturer, serial No., etc.) Descriptions of outdoor lighting: (include approximate number, location) Capacitors: Transformers: (Note - wet or dry type.) - location (Also note Pole No. and describe location for pole-mounted transformers.) Is there any visible evidence of leakage from transformers or capacitors? Y N Describe locations of leaks. Does anyone have knowledge of former transformer locations? Y N Describe locations of leaks. Note: Document all nameplate information for wet transformers and capacitors. Y PCB Waste Storage On Site: $\mathbf{N}$ (If yes, complete "PCB Storage Site Compliance Checklist") N Is storage site registered with

MOEE?

Registration No.:

#### 3.3 HAZARDOUS MATERIALS HANDLING/CHEMICAL STORAGE

Prepare inventory of chemicals stored on site. Include location, container type and size, label description, amount of chemical in place, any hazards noted on label, manufacturer, if known.

Note also any evidence of leakage, corrosion of containers and presence of drains in vicinity of chemical storage.

Note if chemical product is identified as a "flammable liquid".

| Does the building contain a room which may have been used formerly for       | Y | N           |
|--|---|-------------|
| the storage of chemical products (and may, therefore, have had a dump tank?) |   |             |
| If yes, provide details:   |   |             |
| (Note: any evidence of floor   |   |             |
| staining, containment, room  |   | <del></del> |
|  |   |             |
|  |   |             |

#### 3.3.1 Flammable Liquids

Are flammable liquids present?

Note: Flammability classification may be referenced on MSDS or on container labels; record flash point, if available.

| If | yes: |   |              |   |
|----|------|---|--------------|---|
| •  | Do   | pes the volume exceed 235 (?  | Y            | N |
| •  | Aı   | re they in sealed containers?   | Y            | N |
| •  | Aı   | re they located:  |              |   |
|    |      | outdoors? (If so, where?)   | Y            | N |
|    |      | in a building not used for any other purpose?                           | Y            | N |
|    |      | in a room:  | Y            | N |
|    |      | o separated from the rest of the building with partitions having,       |              |   |
|    |      | - at least a 1-hr fire rating?  | Y            | N |
|    |      | <ul> <li>self-closing doors, hinged to swing outwardly?</li> </ul>      | Y            | N |
|    |      | o equipped with,  |              |   |
|    |      | - a drain connected to a dry sump or holding tank?                      | Y            | N |
|    |      | <ul> <li>liquid-tight seals between interior walls and floor</li> </ul> |              |   |
|    |      | and a liquid-tight ramped sill at any door opening                      |              |   |
|    |      | which is not an exterior wall?  | Y            | N |
|    |      | o having natural ventilation to the outdoors by upper and               |              |   |
|    |      | lower exterior wall gravity ouvres?                                     | Y            | N |
|    |      | owith explosion venting to outdoors?                                    | Y            | N |
|    |      | o with spark-resistant floor?   | Y            | N |
|    |      | in facilities having no potential source of ignition?                   | Y            | N |
| •  | If v | volume is less than 235 $\ell$ :  |              |   |
|    |      | are containers sealed and less than 23 £ capacity each?                 | Y            | N |
|    |      | are containers stored in metal storage cabinet?                         | $\mathbf{Y}$ | N |
| •  | Do   | es area where flammable liquids are dispensed have                      |              |   |
|    |      | mechanical ventilation to outdoors?                                     | Y            | N |
|    |      | containers and dispensing equipment bonded and grounded                 |              |   |
|    |      | (when liquid is dispensed)?   | Y            | N |
| •  | Do   | portable containers used for dispensing flammable liquids have:         |              |   |
|    |      | spring-loaded caps?   | Y            | N |
|    |      | flame arrestors?  | Y            | N |

| Registered Waste Streams:                 |          |
|---|----------|
| \   |          |
| Site Registration No. and Company         |          |
| Registered:                               |          |
|   |          |
| If yes, list MOEE waste classifications:  |          |
| (Review copy of waste manifest, if        |          |
| possible.)                                |          |
| _   |          |
| Waste Disposal Contractor/ Firms:         |          |
| _   |          |
| Waste Inventory:                          |          |
| (Note how long wastes are stored on site, |          |
| if possible.)                             |          |
| _   |          |
| _   |          |
| _   |          |
| _   |          |
| _   |          |
| _   |          |
| _   |          |
| _   |          |
| <u> </u>                                  |          |
| 3.5 CFCs:                                 |          |
|   | <i>l</i> |
| Coolant used in A/C systems:              |          |
| (or in refrigeration/cooler equipment).   |          |
| Inspect rooftop units where possible.     |          |
|   |          |
| CFC handling practices (if applicable):   |          |
| _   |          |
| _   |          |
|   |          |
| Name of A/C maintenance contractor:       |          |

3.4

WASTE MANAGEMENT

# 3.6 AIR EMISSIONS Note locations and details of any air emission sources: (Note - check roof.) (Include date of installation and whether installed by the owner or by the previous or current tenant.) Total capacity of boilers (BTU/hr input) or other heaters (e.g., gas-fired unit heaters, roof-mounted HVAC units if supplied by oil or gas): Emergency Generators: (diesel/gas)

Was Owner requested to provide copies of CofA's.

N

Y

Have Certificates of Approval been obtained for the above sources?

| 5.7 DISCHARGES TO SEWERS                     |                            |  |             |
|--|----------------------------|--|-------------|
| Provide details of waste water and other     |                            |  |             |
| discharges, if any:                          | assumed to be disconnected |  |             |
| (where are sewers located?)                  | assumed to ac assented     | <del>-                                    </del> | <del></del> |
|  | -                          |  |             |
|  |                            |  |             |
|  |                            |  |             |
|  | <u> </u>                   |  |             |
|  |                            |  |             |
|  |                            |  |             |
|  |                            |  |             |
|  |                            |  |             |
| Septic System?                               |                            | Y  | N           |
|  |                            |  |             |
| If yes, please describe type, location, etc. |                            |  |             |
| and if reported to be functioning properly.  |                            |  |             |
| Are chemicals or solvents discharged to      |                            |  |             |
| septic?                                      |                            |  |             |
| sepac.                                       |                            |  |             |
|  |                            |  |             |
| Note the presence of and describe any        |                            |  |             |
| accumulations of residues, odours, oil       |                            |  |             |
| sheen, etc., in drains, trenches, pits or    |                            |  |             |
| sumps:                                       |                            |  |             |
|  |                            |  | •           |
|  |                            |  |             |
|  |                            |  |             |
|  |                            |  |             |
|  |                            |  |             |
| •  |                            | ··· · · · · · · · · · · · · · · · · ·            |             |
| A ma amus ail interportant magant?           |                            | Y  | N           |
| Are any oil interceptors present?            |                            | 1  | 14          |
| 70   |                            |  |             |
| If yes, provide details on                   |                            |  |             |
| location, maintenance and                    | assumed disconnected       |  |             |
| condition:                                   | ,                          |  |             |
|  |                            |  |             |

Note: Inspect, if possible, and mark locations of floor drains, septic fields, sumps, etc., on building plan.

Inspect catchbasins for presence of liquid and note if there is any evidence of floating product or discoloration.

|   | vidence of "bush fire" -     | (Y)<br>(Y) | N a could be N historic                |
|---|------------------------------|------------|--|
| Mercury in equipment gauges: (Check boiler room and fan/mechanical room.)   |                              | Y          | N                                      |
| UREA Formaldehyde Foam Insulation (wall cavities): (Note - banned in 1980) • Any evidence of patched nozzle insertion holes (typi                 | ically ~1" diameter) outside | Y          | (N)                                    |
| building?   |                              |            |  |
| Any evidence of UFFI behind electrical outlet cover   | plates?                      | Y          |  |
| Evidence of significant particulate deposition? (Check roof in vicinity of air emission sources.)  If yes, please describe:                       |                              | Y          | N                                      |
| Lead (paint):   | ·                            | Y          | N                                      |
| Mercury (thermostats, paint):   |                              | Y          | N                                      |
| Presence of soil fill materials:  |                              | Y          | N                                      |
| Other Designated Substances present including: acrylo arsenic, benzene, coke oven emissions, ethyle oxide isocyanates, silica and vinyl chloride. |                              | Y          | N                                      |
| Describe:   |                              | <u> </u>   | ······································ |
| Mould (readily evident):  • Describe:   |                              | Y          | N                                      |

| 4.0                 | Snow cover at time of List any inaccessible or restricted areas. | site visit?            | Y        | % (N   | )      |
|---------------------|--|------------------------|----------|--------|--------|
| <b>4.1</b><br>Any U | UNDERGROUND STORA  | AGE TANKS              |          | y (N   |        |
| Total               | Number of USTs.  |                        |          |        |        |
| Note:               | Review available drawi   | ings prior to site ins | pection. |        |        |
|                     |  | Tank 1                 | Tank 2   | Tank 3 | Tank 4 |
| • ta                | nk name:   |                        |          | •      |        |
| • ca                | pacity I or g:   |                        |          | •      |        |
| • tv                | pes of liquid  |                        |          |        |        |
|                     | ored (gas, diesel  |                        |          |        | •      |
|                     | el oil, process  |                        |          |        |        |
|                     | nemicals, waste oil):  |                        |          |        |        |
|                     | entify if active or andoned:                                     |                        |          |        |        |
|                     | onstruction type:  |                        |          |        |        |
|                     | naterial)  |                        |          |        |        |
| siı                 | ngle or double wall:   |                        |          |        |        |
| in                  | stallation date (and   |                        |          |        |        |
| w]                  | no installed,  |                        |          |        |        |
|                     | e., the owner,   |                        |          |        |        |
|                     | evious tenant or rent tenant):                                   |                        |          |        |        |
| va                  | cuum monitored:  |                        |          |        |        |
| со                  | rrosion protection:  |                        |          |        |        |
| res                 | sults of leak tests  |                        |          |        |        |

(if available):

| 4.1 UNDERGROUND STORAGE TANKS   | (CONTINUED)  |              |   |
|---|--|--------------|---|
| Any fill or breather pipes on site?   |  | Y            | N |
|   |  |              |   |
| If yes, describe and mark location on site plan: (Any evidence of former breather pipes -i.e. wall stains or evidence of wall |  |              |   |
| clips.)   |  |              |   |
| Any floor drains in chemical storage  |  | Y            | N |
| rooms?  |  |              |   |
| If yes, where do they drain to?   |  |              |   |
| Any evidence of staining around   |  |              |   |
| drain.  | <u> </u>   |              |   |
| Any evidence of fuel pump pads  |  | Y            | N |
| (concrete)?   |  |              |   |
| Any evidence of repairs to pavements, fill s which could indicate UST removal?  | oil, stressed or inconsistent vegetation   | Y            | N |
| If yes, describe:   |  |              |   |
|   |  |              |   |
| Have any tanks been removed?  |  | Y            | N |
| If yes, provide details for each, including date, type of tank, cleanup work done, available reports or test results:         |  |              |   |
|   |  |              |   |
|   |  |              |   |
| -   |  |              |   |
| -   |  |              |   |
|   |  |              |   |
| -   |  | <del>\</del> |   |
|   |  |              |   |
| Note:   | All areas must be carefully inspected for the prand/or fill pipes which may be associated with |              |   |

be cut off at ground surface).

#### 4.2 ABOVE-GROUND STORAGE TANKS

Are any ASTs present on site?

 $\sqrt{N}$ 

If yes, provide details regarding size, type, containment devices (walls, curbs, dykes), locations and identification tags or signs:

|         | (  | Tank 1                 | Tank 2 | Tank 3 |
|---------|--|------------------------|--------|--------|
| •       | tank name:   |                        |        |        |
| •       | capacity - $\ell$ or g:  |                        |        |        |
| •       | contents:  |                        |        |        |
| •       | location:  |                        |        |        |
| •       | active/abandoned:  |                        |        |        |
| •       | construction type:   |                        |        |        |
| •       | single or double wall vacuum monitored:  |                        |        |        |
| •       | condition:   |                        |        |        |
| •       | age:   |                        |        |        |
| •       | secondary containment (walls, — curbs, dykes):   |                        |        |        |
| Any s   | taining or evidence of spills?   |                        | Y      | И      |
| If yes, | describe:  |                        |        |        |
|         |  |                        |        |        |
| If the  | tank is subject to requirements of th  | ne Gasoline Handling A | 1ct:   |        |
| •       | confirm registration with TSSA:  |                        |        |        |
|         | confirm whether owner conducts r tank dipping to check for leakage naintaining records thereof): | _                      |        |        |

If the tank is used for building emergency generator: is there a gauge for determining liquid level? Y N is there a device to indicate, visually or audibly, when tank is full? Y record whether tank is located on lowest floor of the building: 4.3 WASTE STORAGE 4.3.1 **Hazardous Wastes** Any hazardous waste materials (subject to requirements of O.Reg. 347) stored on site? If yes, provide a detailed description: (i.e. acid solutions, alkaline solutions, sludges, solvents, resins and plastics, pesticides/ herbicides, oily wastes, lab wastes.) Are the materials stored in designated Y N areas? If yes, provide details of storage areas:

#### 4.3.2 Non-hazardous Waste

Any non-hazardous debris present? Specify whether type (standard municipal/office wastes or loose debris). If yes, provide a detailed listing. Waste Storage Containers: Record type, size, number and locations: Waste Storage Areas: Enclosed? Y N If yes, describe enclosure: Presence of uncontained debris and waste? Y N Waste Disposal Contractor: Frequency of waste pickup:

| <b>4.4</b> WATER  Are there any surface water bodies or courses in the vi     | cinity on the property? | Y   | N |
|---|-------------------------|-----|---|
| Describe surface drainage pattern or swale location:                          |                         |     |   |
|   |                         |     |   |
|   |                         |     |   |
| Are there any septic systems on the property?  Describe location, type, etc.: |                         | Y ( | N |
|   |                         |     |   |
|   |                         |     |   |
|   |                         |     |   |
| Is there a potable water supply on site (well, municipal                      | supply)                 | Y   | N |
| Describe location and type of wells.  |                         |     |   |
|   |                         |     |   |
|   |                         |     |   |
|   |                         |     |   |
| Are there any wells on adjacent sites?  |                         | Y   | N |

4.5 SENSITIVE SITE CONDITIONS

Do site conditions suggest this property or adjacent lands would be classified as a potentially sensitive site as per the MOEE GUSCO?

• adjacent wetlands, ANSI, endangered species habitat, Provincial Park, conservation area, etc.

Y N

• less than 2 m of overburden over bedrock.

Y N

Describe:

#### 4.6 SITE UTILITY SUMMARY

| Utilities       | <b>Location/Description</b> |     |     |
|-----------------|-----------------------------|-----|-----|
| Hydro           |                             | U/G | A/G |
| Bell            |                             | U/G | A/G |
| Cable           |                             | U/G | A/G |
| Municipal Water |                             | U/G | A/G |
| Sanitary Sewer  |                             | U/G | A/G |
| Storm Sewer     |                             | U/G | A/G |

#### 4.7 Previous Investigations

Any evidence of previous boreholes, test pits or monitoring wells.



N

Describe:

monitoring wells

#### 4.8 SITE PLAN

Mark-up site plan showing location of:

- USTs; included dump tanks
- fill and breather pipes;
- concrete cover pads;
- above-ground storage tanks;
- heavy staining;
- hazardous materials storage;
- drains and sumps;
- catchbasins;
- drum storage
- wells
- septic field
- utilities lines/pipes
- surface drainage
- transformers
- · fill areas

#### 4.9 PHOTOGRAPHS

Take photos of:

- items of environmental concern such as:
  - hazardous waste storage;
  - o storage tanks and breather/fill pipes;
  - o asbestos fireproofing;
  - significantly-damaged ACM;
  - o gas bars or fuel pumping areas;
  - transformers;
  - o outdoor lighting;
  - o fill materials;
  - o adjacent properties;
  - o etc.

#### 4.10 SAMPLING

Obtain samples of:

- surface water on site (creeks, ponds, etc.);
- surficial soil from any mounds of soil present on site.

Samples may or not be submitted for laboratory analysis at the discretion of the Project Manager. (Sampling and analysis is normally beyond the scope of a Phase I Environmental Site Assessment.)

| 5.0          | ADDITIONAL OBSERVATIONS                 |                  |                                    |
|--------------|---|------------------|------------------------------------|
| 5.1          | SEDIMENT                                | ^                |                                    |
| Locati       | on of extent (note if bedrock)          |                  |                                    |
|              |   |                  |                                    |
|              |   |                  |                                    |
| 5.2          | SURFACE WATER                           | •                |                                    |
| Is ther      | e any surface water on the property?    |                  | $\mathbf{Y}  \widehat{\mathbf{N}}$ |
|              |   |                  |                                    |
|              | If yes, please describe:                |                  |                                    |
|              |   |                  |                                    |
|              |   |                  | (1)                                |
| Are th site? | ere any marsh or wetland areas on the   |                  | Y N                                |
| Sito.        | If yes, please describe:                |                  |                                    |
|              |   |                  |                                    |
|              |   |                  |                                    |
| 5.3          | VEGETATION                              |                  |                                    |
| Descri       | be vegetation in aquatic /littoral zone |                  |                                    |
| (if pre      | sent):                                  |                  |                                    |
|              |   |                  |                                    |
| Descri       | be vegetation in wetland/marsh areas    |                  | 200                                |
| (if pres     | sent):                                  |                  |                                    |
|              |   |                  |                                    |
| Descri       | be vegetation in terrestrial areas      |                  |                                    |
| (note v      | egetation types, and species):          | over grown brush |                                    |
|              |   | 9                |                                    |
| 5.4          | Fish                                    |                  | Y (N)                              |
|              |   |                  |                                    |
| Is there     | e any recreational fishing in the area? |                  |                                    |
|              | If yes, please provide details:         |                  |                                    |
|              |   |                  |                                    |
|              |   |                  |                                    |
| Is there     | any commercial fishing activity in      |                  | Y (N)                              |
| the area     |   |                  |                                    |
|              | If yes, please provide details:         |                  |                                    |
|              |   |                  |                                    |
| 5.5          | WILDLIFE                                |                  |                                    |
| J.J          | 11 ADDULL                               |                  |                                    |
|              | y wildlife observed or signs of         |                  |                                    |
| wildlife     | :                                       | hone             |                                    |

#### 6.0 PHOTOGRAPHS

|                | PHOTOGRAPH LOG         |  |  |
|----------------|------------------------|--|--|
| Photograph No. | PHOTOGRAPH DESCRIPTION |  |  |
|                |                        |  |  |
|                |                        |  |  |
|                |                        |  |  |
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|                |                        |  |  |

### **APPENDIX J**

QUALIFICATIONS OF THE ASSESSORS RESUMES FOR S. PRIOR AND T. NGUYEN

### Richard W. Browne, M.A.Sc., P.Eng.

#### SENIOR VICE PRESIDENT

#### **EDUCATION**

 M.A.Sc., Geo-Environmental Engineering, University of Waterloo, 1988
 B.Sc., Geological Engineering, Queen's University, Kingston, 1978

#### PROFESSIONAL AFFILIATIONS

Professional Engineers of Ontario Canadian Geotechnical Society Canadian Dam Association

#### **EXPERIENCE**

1993-Present - ARCADIS SENES Canada Inc. (Decommissioning Consulting Services)

1993 – 2002 General Manager, Engineering Services 2002 – Present Senior Vice President

Mr. Browne is the Senior Vice President at DCS and has a background in environmental and geotechnical engineering. He is a Qualified Person under Ontario's O.Reg. 153/04 for both Phase I and II Environmental Site Assessments. He has been involved in a wide range of projects including subsurface contamination investigations; environmental liability assessments; development, design and supervision of site remediation programs as well as the geotechnical and foundation engineering components of site remediation and property redevelopment projects. He has been the project manager for numerous environmental programs including the following:

Mr. Browne is currently the project director for a 3 to 5 year Vendor of Record agreement with Infrastructure Ontario to provide environmental and geotechnical engineering services to the real estate and public infrastructure development arm of the Province of Ontario. In this capacity he has been involved with numerous Phase I and II ESA programs as well as Category B EAs throughout northeastern Ontario. The largest program completed to date has been the Phase I ESA of 77 Ontera telecommunication facilities located between North Bay and James Bay. Phase I ESA assessments of 7 railway yard properties owned by Ontario Northland Railway has also been carried out. Mr. Browne has played a key role in the setup of the required programs, co-ordination of the work, review of reports and discussion of remediation options etc. with senior IO staff.

Recently Mr. Browne has carried out reviews of hydro electric dam improvement and replacement projects located in the Northwest Territories. For both projects Mr. Browne participated in the public hearings and reviewed technical

specifications and submissions prepared by Power Corporation and their consultants

Project director for two three-year contracts with the Toronto Transit Commission (TTC) to provide geotechnical and geoenvironmental engineering services for modifications and upgrades of the Toronto subway and bus system. Developed investigation work plans, completed environmental and geotechnical report and recommendations reviews and carried out project management, as required. The more than 100 projects included new bus and light rail transit routes, investigations for new entrances to existing subway stations, assessment and remediation of hydrocarbon impact plumes and many other assignments.

Completed environmental investigation of the former Morningside Landfill open lands in preparation for development of the Pan Am Aquatics Centre site. Carried out a detailed Phase I ESA followed by completion of more than 100 borehole and tests on City of Toronto and University of Toronto Scarborough lands. Determined buried municipal waste volumes, earthworks quantities and the estimated cost to fully remediate the site by excavation and off site disposal. Assessed soil and groundwater conditions for the purposes of determining founding elevation of barrier wall to stop methane gas migration from the adjacent landfill mound to remain on site.

Project director for the environmental investigation and risk assessment for the parkland and residential redevelopment of the West Don Lands former industrial area in downtown Toronto. The program carried out for the Ontario Realty Corporation involves completion of more than 150 boreholes and development of detailed risk management strategies for this brownfield site meeting City of Toronto and MOE requirements.

Project Director for geotechnical investigation for Toronto Hydro at the Ashbridges Bay Treatment plant for foundation system to support a seven unit methane gas electrical cogeneration plant. Site was underlain by compressible peat and fill layers with subsurface methane gas under pressure. Provided foundation design recommendations and obtained Ministry of Labour approval for health and safety plan to be followed during pile foundation installation through methane bearing strata.

Retained by the City of Toronto to carry out environmental peer reviews of site investigation and remediation reports prepared by other consultants to support applications to redevelop industrial properties. Completed peer reviews of over 70 properties over more than 10 years.

Completed geotechnical investigation at the Hydro One Richview Transformer Station in Toronto, Ontario. Prepared geotechnical recommendations to resolve differential settlement of switchgear equipment supported by shallow foundations at locations throughout the station.

Completed detailed environmental investigations of University of Toronto lands surrounding a former municipal landfill site in the Scarborough area of Toronto, Ontario. Completed assessment of soil and groundwater impacts, as well as, potential concerns associated with landfill gas migration and generation. Presented geotechnical and environmental concerns and solutions at public meetings and to City officials. Work was completed to obtain approvals for redevelopment of land within potential zone of influence of the landfill.

Provided senior engineering review and co-ordination to the investigation of 17 Phase II ESA's of Hydro One distribution station sites throughout southern Ontario. This included review of work plans, final site investigation reports and proposed site remediation plans, specifications and risk analyses.

Project Director for the Phase II ESA of a property located in the Municipality of Port Hope. The property which is bound to the north by the Oak Ridges Moraine and to the south by a provincially significant wetland is considered a sensitive site. The assessment involved the completion of over 30 boreholes and test pits to investigate potential contamination to soil and groundwater from former activities undertaken on the property. Potential areas of concern included UST and AST locations, the septic beds, the maintenance garage and a dump site on the embankments of a watercourse crossing the property. Oversaw the completion of the work program, prepared a detailed report outlining the findings of the investigation program and provided recommendations for remedial work activities.

Project director for the investigation and remediation of a former gravel pit infilled with miscellaneous fill in Scarborough, Ontario for Centennial College. The program involved assessment of potential impacts of methane gas and leachate from two nearby landfills. Completed technical specifications and supervised remediation of site. Completed detailed geotechnical investigation for proposed 5 storey community college campus. Prepared slope stability analyses for construction of building within Highland Creek Valley. Oversaw geotechnical inspection work for construction of building foundations, retaining walls and required sub-slab drainage system.

Completed Phase I and Phase II ESA's of a series of properties to be acquired by Rogers AT & T throughout Southern Ontario. Co-ordinated cleanup of a designated sensitive site to background contaminant levels.

Co-ordinated the environmental investigation and preparation of ecological and human health risk assessments for two former bulk oil storage industrial sites in the Toronto waterfront area for TEDCO. One site was proposed for commercial usage, while the second was proposed to be a wildlife corridor green space.

Project Manager for completion of an environmental assessment of the proposed Technodome site at former CFB Toronto, Downsview, property. The program involved subsurface investigation of a large number of former aboveground and underground storage tank locations as well as former ammunition storage areas.

Completed an environmental investigation into the possible upgradient sources of volatile organic compound (VOC) contamination within the groundwater underlying a Toronto industrial plant. Presented case to MOE for classification as an area wide concern.

Prepared environmental engineering requirements for the capping of arsenic-impacted soil at three electrical distribution sites. The program included preparation of environmental work plans, construction drawings for capping and drainage systems, and preparation of technical specifications.

Co-ordinated the subsurface investigation of a hydrocarboncontaminated MNR works yard adjacent to a river in Northern Ontario. Prepared a remediation work plan and tender documentation for cleanup of the site. Oversaw remediation of the site and ongoing groundwater monitoring to assess any impact on water quality.

Co-ordinated the geotechnical investigation of a proposed residential development site along the crest of the Humber River Valley in Bolton, Ontario. Completed stability analyses of the 20 to 30 m high valley slope and prepared an engineering report to support the proposed development at an Ontario Municipal Board hearing.

Project Manager for the investigation and partial remediation of a major heating fuel oil tank loss, of in excess of  $100,000\,\ell$ , at a Toronto apartment complex immediately adjacent to the Don River Valley. Co-ordinated emergency installation of product recovery well and interceptor trenches to recover loss product migrating through the sandy overburden. Supervised the monitoring of the product recovery system and the installation of a groundwater treatment system. Represented firm in arbitration hearings which resolved dispute with major oil firm and property owner.

Co-ordinated the environmental investigation of a 14 ha property in the historic industrial area of Kingston, Ontario. Investigated the extent of primarily heavy metal contamination associated with past operations of a tannery and lead smelter on the site. Assessed environmental liabilities and remediation costs associated with redevelopment of the

#### **RWB .../3**

property. Prepared to give environmental testimony in court; however, issue was resolved.

### 1978-1993 - Geocon Inc. (SNC Lavalin), Toronto, Ontario

General Manager - 1991-1993 Senior Project Engineer - 1978-1991

Carried out geotechnical investigations, analyses and report preparation for industrial properties, dam sites, mine tailings areas, marine installations, highway route alignments and pulp and paper mills at locations across Canada as well as in Honduras.

Geotechnical/environmental investigation for major expansion of the Humber Sewage Treatment Plant. Provided recommendations for off-site disposal of contaminated soil and groundwater.

Project Manager for the geotechnical investigation of a proposed oil storage tank farm to be constructed on soft marine sediments in Hamilton Harbour. The program included detailed settlement analyses and slope indicator and pneumatic piezometer monitoring of the stability of the structure during water testing and filling of the tanks.

Geotechnical investigations and construction supervision for the Sky Dome facilities, including caisson installation and spread footings on shale.

Supervised pile load test program and installation of 944 steel tube piles for settlement-sensitive paper machine at Abitibi Price mill in northern Ontario.

# Stephen R. Prior, P. Eng., QP<sub>ESA</sub>

#### SENIOR PROJECT MANAGER

#### **EDUCATION**

B.Sc. Earth Sciences, University of Waterloo, 1980

#### **TRAINING**

1993 40 hour OSHA training Course1995 8 hour OSHA refresher training

2000 Hydro One Grounding and Bonding Course

2006 Confined Space Entry

#### **EXPERIENCE**

2006-Present - ARCADIS SENES Canada Inc. (Decommissioning Consulting Services)

Mr. Prior is a senior project manager for DCS and has over 30 years' experience is site assessments and environmental investigations.

- Completed a large number of Peer Reviews of Phase One, Phase Two and Records of Site Conditions for the City of Toronto and the City of Vaughan. These reviews were completed to ensure that lands being transferred to the City were not impacted and would therefore present no environmental liability.
- Provided peer review services for the MOE for Risk Assessments that had been completed by other consultants. The peer review process examined the Property Information, Site Plan and Geological Interpretation portion (Section 3) of the Risk Assessment to ensure correct interpretation of the site conditions was used and to ensure that all items addressed met the criteria provided under O. Reg. 153/04.
- Oversaw the completion of the field program for a Phase One and Phase Two ESA for the proposed Pan Am Stadium and Velodrome in the West Harbour area of the City of Hamilton. The field program was designed to establish site conditions in preparation for the completion of a Risk Assessment using the standards established in O. Reg. 153/04.
- Completed a number of Phase I and Phase II ESAs
  for the potential development of power generating
  stations. The potential site and potential
  transmission lines routes were examined. Potential
  sites included former industrial areas that had been
  impacted by VOCs. A review of the effectiveness of
  a former air sparging system was completed.
- Completed numerous Phase I and Phase II ESAs throughout southern Ontario for Public Works and Government Services Canada. These included overseeing the field programs and preparation of

- reports. The projects were generally completed using the applicable federal guidelines to establish liabilities and also to the Site Conditions Standards under O. Reg. 153/04
- Project manager for a Phase II Environmental Site Assessment on a property owned by the City of Guelph. It was necessary to develop a program based on historic chemical data and site uses to develop a field program that would maximize the information acquired. The end goal was to assess the potential future land uses and determine estimated costs for clean-up.
- Developed specifications and remedial procedures for lands that had been formerly used as a skeet range. The impacted soil contained lead from the shot and benzo(a)pyrene from the tar used as a binder in the clay pigeons.
- Developed and implemented a Phase One and Phase Two Environmental Site Assessment for a surplus property located in Northern Ontario. Previous land uses had included boat manufacturing, pesticide blending and storage and fuel oil/gasoline storage. In addition, an assessment of gasoline in a monitoring well sealed in the bedrock was required. Based on the geology and construction of the monitoring well it was postulated that the gasoline had been introduced into the well as opposed to gasoline contamination site wide.
- Project manager for the assessment of harbour lands to be transferred to the local government. The development of a Phase I and Phase II ESA was required to develop a database that would allow for the completion of a Risk Assessment. This work program was completed using the applicable federal guidelines to establish liabilities. The results were also compared to the MOE Site Conditions Standards as provided under O. Reg. 153/04.
- Developed and implemented a program to examine a number of sites within a Canadian Forces Base. Environmental concerns included Mustard Gas storage areas and potential petroleum hydrocarbon impacts.
- Oversaw the development and implantation of a Phase II Environmental Site Assessment for a former industrial property in Toronto. The program was designed based on previously completed studies to maximize the information obtained.
- Completed a hydrogeologic investigation into a property located with the Oak Ridges Moraine in preparation for obtaining a Permit To Take Water (PTTW) that would be required for excavation of a two level basement. A major concern was the possibility for upward pressure from the underlying aquifer to overcome the soil remaining in place. This could have resulted in major flooding of the

- excavation resulting in increased costs for construction.
- Project Manager for the completion of a number of Scaled Down Phase I/II ESAs at a number of properties operated by the Department of Fisheries and Oceans across southern Ontario.
- Completed a large number of Phase I and Phase II Environmental Site Assessments across the Province of Ontario.
- Supervised the completion of a number of remedial programs including the removal of impacted soils so that an RSC could be obtained for the property.

#### **2005 – 2006** Self Employed

- Provided on site laboratory analysis during the investigation and clean up of TPH impacted sites.
   On site analysis used Ultra Violet Fluorescence (UVF) techniques to provide real time, near laboratory quality analysis for petroleum hydrocarbons.
- Developed a relational data base for a small local manufacturer to track supplies and equipment.

#### 2000 – 2005 AEON Management, Brampton, Project Manager/Engineer

- Project Engineer on a number of electrical distribution stations that had been impacted by the use of arsenic trioxide which had been used as a defoliant until 1972. Field screening techniques included the use of X-Ray Fluorescence (XRF) were used to assess the extent of impacts and also to guide the excavation during the remediation program.
- Project engineer on the remediation of a number of sites that were impacted by NAPLs, petroleum hydrocarbons and metals.
- Provided on site laboratory analysis using X Ray Fluorescence (XRF) for metals and Ultra Violet Fluorescence (UVF) for some organics including petroleum hydrocarbons, BTEX parameters, some NAPLs, PCBs and PAHs. These techniques allow for near instantaneous analysis of field samples resulting in reduced downtime during a clean up process.
- Completed studies at a number of provincial parks to assess the potential for non-GUDI wells. Water supply wells were drilled at most sites and pumping tests were completed.
- Completed numerous data projects using VIEWLOG and SiteFX. These programs allow for the input of data into a relational database and the creations of isopoch, chemical concentration and groundwater flow maps. Cross sections were generated directly from the database and volumes of contaminated

- material were estimated. VIEWLOG may also be used as a pre- and post-processor for MODFLOW.
- Designed a number of surface and ground water observation stations that monitored the interaction between the ground and surface water flow into and out of a test area. These stations were designed to monitor surface flows and ground water levels through the use of pressure transducers. The data could be collected at regular intervals and downloaded for a more detailed analysis.

# 1997 – 2000 Trow Consulting Engineers, Stoney Creek, Project Engineer

- Site engineer responsible for overseeing the geotechnical and environmental aspects of a large-scale expansion of an industrial facility along the Hamilton Harbour front.
- Provided an assessment of an existing pump and treat system and determined its long-term effectiveness. Alternative methodologies were proposed.

## 1990 – 1997 Jagger Hims Limited, St. Catharines, Project Manager/Engineer

- Completed a multi year aquifer evaluation for a city in south central Ontario. The project involved the design of a phased pumping test program to ensure an adequate supply of drinking water was available over the duration of the test and to maximize the collected data. In addition, all information available for each water supply was compiled from various sources. It is understood this information is used to this day as a useful reference for City employees.
- Developed a relational database for a hazardous waste disposal facility located in southwestern Ontario. This database included all known information on the site including chemical analysis, geology and historical land use. This database was used in the preparation of an Environmental Assessment of a proposed expansion of the hazardous waste landfill.
- Completed a model of the fractured bedrock aquifer system for a city in south central Ontario. This included proposed wellhead protection zones.
- Completed a number of models to monitor the impact of landfills on the groundwater flow system
- Completed a number of 1½ D diffusion models to predict the long-term rate of impact of a hazardous waste facility on an aquifer supplying area residences.

#### 1988 – 1990 MacLaren Engineers, Toronto, Project Engineer

- Field project manager for the removal of approximately 450,000 m3 of potentially contaminated soil from a former rail yard in downtown Toronto. Laboratory analysis was performed on a just-in-time basis with these results determining the disposal site of the soil.
- Created a large database to track the chemical analysis for soil samples at a large dig and dump project. The database also tracked the movement of the soil leaving the site.

#### 1985 – 1988 Bruce A. Brown Associates Limited, Project Engineer

- Completed a number of Phase II investigations at various sites across Toronto.
- Completed a number of investigations to determine the feasibility of sites for septic systems.

#### 1980 – 1985 Geocon Inc., Toronto, Project Engineer

- Completed a large number of geotechnical investigations in the harbour front area of Toronto. This work included drilling supervision with boreholes that extend into the Georgian Bay bedrock, caisson inspection and monitoring of the construction of a tunnel leading from the cross town water line into the new John St. Water pumping station.
- Completed monitoring of fractures in the bedrock underlying the footings of the Skydome to determine if wide clay filled fractures were present that may have had a detrimental impact on the settlement of the footings.
- Provided on site supervision during the construction of a large number of tailings ponds across Canada. This work includes monitoring the construction of the starter dams and supervising grouting of the bedrock beneath the dams to create a low permeability barrier.

#### **PUBLICATIONS**

Prior, S., G. Funk and J. Sanvido, *Aquifer Evaluation and Delineation of Wellhead Protection Areas for the City of Guelph*. Presented at the International Association of Hydrogeologists Conference, Edmonton, June 1995.

#### COMMUNITY INVOLVEMENT

Chair of Land Care Niagara, a land stewardship group that is committed to creating a healthy and sustainable rural and urban environment. This is a volunteer group consisting of citizens who are knowledgeable and active in land resource management.

### Tu-Anh Nguyen, M.Eng.

#### **ENVIRONMENTAL SPECIALIST**

#### **EDUCATION**

M.Eng. Environmental Engineering, University of Ottawa, Ottawa, Ontario, 2011

B.A.Sc. Chemical Engineering, University of Ottawa, Ottawa, Ontario, 2008

The focus of graduate studies was to gain a wide breadth of knowledge pertaining to various topics in environmental engineering. Relevant courses included Environmental Impact Assessment, Construction Management, Advanced Water Treatment, Wastewater Treatment, Sludge Treatment and Disposal, Infrastructure Management and Mine Waste Management.

#### PROFESSIONAL AFFILIATIONS

Professional Engineers of Ontario – Engineer in Training

#### **EXPERIENCE**

2013-Present - ARCADIS SENES Canada Inc. (Decommissioning Consulting Services)

**Environmental Specialist** 

Responsibilities as an Environmental Specialist include performing Phase I and II environmental site assessments, analysis and interpretation of chemical data, preparation and review of reports.

Typical projects are described below:

- Involved in a Phase I environmental site assessment for a residential property in Northern Ontario. Examined aerial photographs and conducted a review of Ministry of Environment databases.
- Performing QA/QC on analytical results, as well as organization of laboratory data and certificates.

2011-2013 OHE Consultants, Mississauga, Ontario

Project Consultant

Responsibilities included project planning, preparation of proposals, liaising with clients and scopes of work, in addition to cost estimation, budget preparation, planning and execution of projects. Technical writing included Phase One and Phase Two environmental site assessments as well

as storage tank removal and remediation reports. Carried out Phase One site reconnaissance, soil sampling and groundwater monitoring and collection for Phase Two environmental site assessments, supervision of storage tank removal and remediation.

Typical clients included banks and financial institutions, real estate holdings firms, commercial retailers and cosmetics firms.

2008-2009 DST Consulting Engineers Inc., Ottawa, Ontario

Junior Environmental Engineer

Responsibilities included writing various technical reports such as environmental site assessments, property transfer assessments and remediation reports, as well a background research, data analysis and interpretation of trends and results. Fieldwork includes soil, sediment and groundwater sampling, in addition to site inspections and surveying.

#### SHORT COURSES

Nuclear Radiation Safety Course, 2013

Workplace Hazardous Materials Information System, St. John Ambulance, 2013

Subway Rule Book and Track Safety Training, Toronto Transit Commission, 2013

Emergency First Aid and CPR Level B, Lifesaver 101 First Aid & CPR Training, 2012